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(54) Title: NUCLEAR RECEPTOR STRUCTURE

(57) Abstract: The present invention is in the fields of biotechnology, protein purification and crystallization, x-ray diffraction analysis, three-dimensional computer molecular modeling and rational drug design. The invention is directed to the glucocorticoid receptor and ligands for this receptor, and in particular to crystalline glucocorticoid receptor (GR) and to methods of identifying ligands utilizing GR, as well as to compounds, compositions and methods for selecting, making, and using therapeutic or diagnostic agents having GR modulating or binding activity.

FIELD OF THE INVENTION

The present invention is in the fields of biotechnology, protein purification and crystallization, x-ray diffraction analysis, three-dimensional computer molecular modeling and rational drug design. The invention is directed to the glucocorticoid receptor and ligands for this receptor, and in particular to crystalline glucocorticoid receptor (GR) and to methods of identifying ligands utilizing GR, as well as to compounds, compositions and methods for selecting, making, and using therapeutic or diagnostic agents having GR modulating or binding activity.

BACKGROUND OF THE INVENTION

The three-dimensional structures of the ligand binding domains of the estrogen (ER) (Brzozowski, A.M., et al., M. Nature 1997, 389, 753-758), progesterone (PR) (Williams, S.P.; Sigler, P.B. Nature 1998, 393, 392-396), and of the androgen (AR) (Matias, P.M.; et al. J Biol Chem 2000, 275, 26164-26171) receptors have been determined. Knowledge of the three-dimensional structure has enabled a better understanding of the modes of ligand binding to steroidal nuclear receptors and the determination of the optimum conformation of ligand to bind to these receptors. This understanding will provide a pharmacophore model usable in the design of ligands, such as drugs, to bind to the glucocorticoid receptor. It is generally believed in the art that the AR, ER, and PR structures also provide a guide to the design of GR ligands.

Glucocorticoid steroid hormone and thus the glucocorticoid receptor (GR) is a member of the steroid hormone nuclear receptor family. Its primary natural ligand in human is cortisol. Cortisol and a large number of synthetic steroids such as dexamethasone have an agonist mechanism of action (they up-regulate genes down stream from glucocorticoid response elements (GREs)). A number of synthetic glucocorticoid antagonists have also been described in the literature and these include RU-38,486 and RU-43,044.

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Glucocorticoid Agonists

Glucocorticoid Antagonists

However, it is known that a large number of structurally diverse non-steroidal compounds such as clotrimazole, ketoconazole (WO-09932101; J. Clin. Invest. 1983. 72, 404-408.), indomethacin (Biochem. Pharmacol. 1978, 27, 1187-91.), collismycin (J. Antibiot. 1994, 47, 1072-4.), N-(2,3,3-triphenylpropyl)-2-thiopheneacetamide (WO-09933786), 4-aminotriphenyl-methanes (WO-00006137), benzopyranoquinolines (WO-09941256), benzo[3,4-f]quinolines (WO-09941257), 2-hydroxy-4-(2-hydroxyphenyl)alkylamino-substituted heterocycles (WO-00032584). (4bR,7S,8aS)-rel-4b,5,6,7,8,8a,9,10-octahydro-7-hydroxy-4b-(phenylmethyl)-7-(1-pro pynyl)-2-phenanthrenecarbonitrile (WO-0066522), and (3,5-dibromo-4-[5-isopropyl-4-methoxy-2-(3-methylbenzoyl)-phenoxy]phenyl)acetic acid (WO-09963976) also bind to the glucocorticoid receptor.

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It has been proposed that the receptor possesses a multi-functional modular structure potentially having discrete domains for DNA binding, ligand binding, and transactivation. The ligand binding domain (LBD) has been designated domain E and is the largest domain of the glucocorticoid receptor. The ligand binding domain includes a ligand recognition site and regions for receptor dimerization, interaction with heat shock proteins, nuclear localization and ligand dependent transactivation.

A review of the structure and functioning of the glucocorticoid receptor is provided in an article by Gustafsson, J.Å.et al., *Prog Clin Biol Res* 1990, 322, 65-80.

It is known that compounds which bind to the glucocorticoid receptor are potentially useful in the treatment a wide range of disease states. These include glucocorticoid agonists for treatment of disease linked to glucocorticoid deficiency (e.g., Addison's Disease) and for treatment of autoimmune and inflammatory diseases and glucocorticoid antagonists for treatment disease linked to glucocorticoid excess such as Cushing Syndrome and type-II diabetes. Furthermore, it is known that certain ligands such as RU-24,858, ZK-079,642, and medroprogesterone acetate display a dissociated mechanism of action (trans-repress AP-1 and/or NF-kB without transactivating through binding to classical glucocorticoid response elements). It is further known that a number of structurally diverse classes of steroidal and non-steroidal ligands are usable as agonists or antagonists to the glucocorticoid receptor, and that it is possible to modify their binding mechanics, for example the binding affinity, by changing the substituent groups at various positions on the molecule. Therefore, it would be desirable to be able to design ligands which are recognizable by and able to bind to the glucocorticoid receptor. Additionally, it would be desirable to know the three dimensional structure of the glucocorticoid receptor. Such knowledge would be useful for the design of compounds intended to bind to the glucocorticoid receptor. Difficulties in obtaining GR crystals resulted in a GR model being developed on the basis of thyroid hormone, estrogen and progesterone receptors (WO 00/52050). However, the present inventors now have been able to produce a glucocorticoid receptor crystal and to determine from that the three dimensional structure of the glucocorticoid receptor. Unexpectedly, the thus determined GR structure reveals that the AR, ER, and PR structures do not provide a

good model for binding of ligands to GR.

SUMMARY OF THE INVENTION

We have succeeded in crystallizing GR and determining its crystallographic co-ordinates. Therefore, in a first aspect the present invention provides a glucocorticoid receptor ligand binding domain crystal.

In another aspect of the invention, methods for designing ligands which will bind to GR are provided. Such methods use three-dimensional models based on the crystals of the glucocorticoid receptor. Generally, such methods comprise, determining compounds which are likely to bind to the receptor based on their three dimensional shape in particular the ligand binding domain of the GR. Preferably, those compounds have a structure which is complementary to that of the GR. Such methods comprise the steps of determining which amino acid or amino acids of the ligand binding domain of the GR interacts with the binding ligand, and selecting compounds or modifying existing compounds, to improve the interaction. Preferably, improvements in the interaction are manifested as increases in the binding affinity but may also include increases receptor selectivity and/or modulation of efficacy.

Preferably, the ligands bind to the internal GR binding cavity with a high binding affinity, for example within the range of 0.01–100 nM.

The ligands may bind tightly to the GR yet not up-regulate gene expression thereby inhibiting the action of cortisol and cortisol mimetics. Thus, the invention also provides a method of inhibiting the activity of cortisol or cortisol mimetics by providing ligands which bind to GR with a high affinity, blocking the activity of glucocorticoids. Alternatively, binding of the ligand to the GR may cause conformational changes to the GR inhibiting further binding thereto. The invention further provides a method of inhibiting cortisol activity in an animal, the method comprising administering to the animal a ligand which binds to at least the LBD, of the GR with high affinity and blocks binding of further ligands to at least the LDB of the GR. Such ligands are useful in, for example, the treatment of glucocorticoid receptor mediated diseases in humans. Preferably the ligands are identified by the

method of designing ligands according to the invention.

Protein crystallography is not routine. For example, during the process of finding a crystallisable species, a number of GR constructs were designed. The starting point was the PR crystal and the visible part of PR in electron density. Sequence alignment showed the corresponding GR position. Quite unexpectedly the constructs most similar to PR did not produce GR protein suitable for crystallisation. Over 15 additional residues were necessary for the production of GR that could be homogeneously crystallised.

DETAILED DESCRIPTION OF THE INVENTION

One aspect of the invention provides a crystal comprising at least 150 amino acid residues of the GR ligand binding domain. Preferably, the said crystal comprises at least 175, or at least 200, or at least 240 amino acid residues of GR. More preferably, said crystal contains at least 250 amino acid residues of GR. Most preferably, the said crystal comprises the entire GR amino acid sequence.

Preferably the crystal comprises the amino acid sequence shown as Leu-532 to Leu-732, especially Leu-532 to Met-745, most preferably Leu-532 to Gln-776, of a GR ligand binding domain as shown in Figure 7 or an amino acid sequence having at least 95%, especially above 97, 98 or 99% identity to the sequence. This numbering is based on the full GR sequence.

Most preferably the crystal comprises Leu-532 to Met-745, especially Leu-532 to Gln-776.

The sequences of GR1, GR2 and GR3 are shown as Seq. ID1, 2 and 3 respectively. The amino acid numbering consequently changes to reflect the sequence listing numbering. Most preferably the crystals have one or more of the properties shown in Table 1.

Preferably the aminoacid sequence of the crystal comprises Leu-35 to Leu-235, especially Leu-35 to Met-248, more preferably Leu 35 to Gln-279 of GR1 (shown as Seq. ID. No. 1). Preferably the crystal comprises the entire sequence of GR1.

The amino acid sequence of the crystal may comprise Leu-14 to Leu-214, most preferably the entire sequence of GR2 (shown as Seq ID No. 2).

Alternatively the amino acid sequence of the crystal may comprise Leu-35 to Leu-235, preferably Leu-35 to Met-248, more preferably Leu-35 to Glu-279, especially the entire sequence shown for GR3 (shown as Seq ID No. 3).

Isolated proteins consisting of the amino acid sequences listed for the crystals are also provided by the invention. The isolated proteins may be used to produce the crystals.

The proposed structural identity of parts of the GR ligand binding domain is shown below, based on the amino acid numbering of the full GR sequence in comparison with the equivalent structural elements for Estrogen Receptor Ligand binding domains.

GR#	ER#	GR residues
helix-1	(H2)	Leu-532 to Ile-539
helix-2	(H3)	Thr-556 to Lys-579
helix-3	(H5)	Leu-589 /Asp-591 to Gln-615/Ser-616
sheet-1	(S1)	Leu-621 to Cys-622/Ala-624
sheet-2	(S2)	Leu-627/Ile-628 to Ile-629
helix-4	(H7)	Met-639/Tyr-640/Cys-643 to Arg-655
helix-5	(H8)	Tyr-660 to Leu-671
sheet-3	(NA)	Ser-674 to Pro-676
sheet -4	(NA)	Ile-679 to Lys-771
helix-6	(H9)	Gln-583 to Val-702/Lys-703/Arg-704
helix-7	(H10-11)	Gln-710/Asn-711 to Leu-732/Cys-736
helix-8	(NA)	Phe-740 to Met-745
helix-9	(H12)	Phe-749 to Ile-757

NA = Not applicable (corresponding secondary structural element does not exist in ER).

An embodiment of this aspect of the invention provides a crystal produced using a sequence including helix 9 of GR. Preferably this is between Phe-749 to Ile-757, especially Leu-753 to Ile-757.

The crystals according to the invention may be usable in X-ray crystallography.

In another embodiment of the present invention there is provided a GR crystal as described above also including a ligand bound to GR or a portion thereof. Said ligand may be selected from RU-486 [(11 β ,17 β)-11-[4-(dimethylamino)phenyl]-17-hydroxy-17-(1-propynyl)-estra-4,9-dien-3-one, CAS registry number 84371-65-3], cortisol, dexamethasone or any other ligand that binds with high affinity (<1.0 nM) to the internal GR binding cavity. The dexamethasome may be used with a coactivator ligand such as T1F2 NR-box 3.

In another embodiment of the present invention there is provided a crystal of GR LDB belonging to the space group $P2_12_12_1$ and having the unit cell dimensions a = 67.33 Å, b = 87.42 Å, c = 93.11 Å, $\alpha = \beta = \gamma = 90^{\circ}$.

In another embodiment of the present invention there is provided a crystal of GR LDB belonging to the space group P6₅ and having the unit cell dimensions a=132.09 b=132.09 c=53.048, $\alpha = \beta = 90^{\circ}$, $\gamma = 120^{\circ}$.

In another embodiment of the present invention there is provided a crystal of GR LDB belonging to the space group $P2_12_12$ and having the unit cell dimensions a= 74.5, b= 109.7, c= 39.1. $\alpha = \beta = \gamma = 90^\circ$.

A preferred crystal belongs to the p3i space group with a pair of dimers in the

asymmetric unit, and having cell dimensions a=b=127.4, c=91.8, $\alpha=\beta=90^{\circ}$, $\gamma=120^{\circ}$.

The crystals according to the invention may have a resolution as determined by X-ray crystallography of less than 3.6Å, preferably less than 2.9Å.

In another aspect of the present invention, there is provided a machine-readable data storage medium, comprising a data storage material encoded with machine readable data which, when using a machine programmed with instructions for using said data, is capable of displaying a graphical three-dimensional representation of a crystal structure as described above or a homologue of said crystal structure. Homologues include crystals with the same space group, but with another ligand, crystals with the same space group and substantially the same dimensions, and crystals using GR from other species such as rat.

In yet another aspect of the present invention, there is provided a method for designing a potential glucocorticoid receptor ligand for the treatment of diseases modulated by the glucocorticoid, the method comprising the steps of:

- a) employing computational means to perform a fitting operation between the chemical entity and a binding site of GR receptors identified from a crystal of the invention, machine-readable storage medium as described above or a 3D representation obtained from the storage medium;
- analyzing the results of the fitting operation to predict the association between the potential chemical entity and the binding site;
- synthesizing the potential glucocorticoid receptor ligand based on the crystal structure of the glucocorticoid receptor;
- assaying the glucocorticoid receptor ligand for glucocorticoid receptor binding, response in a glucocorticoid reporter cell line, measuring in vivo effects including but not limited to hepatic glucose production, marker proteins such as transamino transferase, corticotropin-releasing hormone,

or anti-inflammatory response which indicates that the compound may be used for treatment of diseases modulated by the glucocorticoid receptor.

The binding pocket residues have preferably been identified.

In yet another aspect of the present invention, there is provided a method of designing a ligand which will bind to GR comprising comparing the shape of a compound with the shape of the ligand binding domain of GR as obtained from a crystal according to the invention, and determining which amino acid or amino acids of the ligand binding domain interact with said compound.

Ligands identified by the methods of designing ligands are also included in the scope of the invention. Preferably, there are agonists or antagonists of GR.

Preferably, the ligands interact with Arg611 and Gln642 which have been shown to be important determining the GR specificity of ligands.

In yet another aspect of the present invention, there is provided a crystallized molecule or molecular complex comprising a binding pocket defined by the structure coordinates of human GR ligand binding domain amino acid residues MET560, LEU563, ASN564, LEU566, GLY567, GLY568, GLN570, TRP600, MET601, MET604, ALA605, LEU608, PHE623, MET646, LEU732, CYS736, ALA748 or a homologue of said molecule or molecular complex wherein said homologue has a root mean square deviation form the backbone atoms of said amino acids of not more than 1.5 Å.

A further aspect of the invention provides crystalisable compositions comprising at least 150 amino acid residues of the GR ligand binding domain.

STRUCTURE BASED DESIGN OF GR LIGANDS

The present invention elucidates the structure of the ligand binding cavity of GR.

Knowledge of the structure of this cavity has utility in the design of structurally novel GR ligands and in the design of non-obvious analogs of known GR ligands with improved properties. These enhanced properties include one or more of the following: (1) higher affinity, (2) improved selectivity for GR vs. closely related nuclear hormone receptors such as MR, and/or (3) a designed degree of efficacy (agonism vs. partial agonism vs. antagonism). Without knowledge of the GR structure, modifications to produce ligands with enhanced properties and a reasonable likelihood of success would not be available to those skilled in the art. The GR structure also has utility in the discovery of new, structurally novel classes of GR ligands. Electronic screening of large, structurally diverse compound libraries such as the Available Chemical Directory (ACD) will identify new structural classes of GR ligands which will bind to the 3-dimensional structure of the glucocorticoid receptor. Additionally the GR structure allows for "reverse-engineering" or "de novo design" of compounds to bind to GR.

(1) Enhanced Affinity

The present invention has revealed the presence of glucocorticoid receptor beta defined β - and α -face cavities centered respectively above and below the B- and C-rings of cortisol.

The present invention provides new ligands which exploit this discovery by filling the α - and β -face cavities.

Preferably, the ligand fills at least one of the α - and β -face cavities so as to displace water from the cavity or cavities.

The ligands produced in accordance with the invention bind more effectively to the GR than cortisol. The ligand may bind with twice the binding affinity of cortisol, preferably three times the affinity, and most preferably ten or more times the affinity.

Modifications to the steroid nucleus may be made at the positions marked in R in Figure 1 (α -substitution at the 7-, 9-, 12-, 14-, 16-, and 17-positions; β -substitution at

the 8-, 11-, 15-, and 18-positions). Preferably, those substituents are hydrophobic substituents, e.g., methyl, ethyl, iso-propyl, fluorine, chlorine, bromine, or iodine.

Preferably, the ligand produced in accordance with the invention fills at least one of the α - and β -cavities of the GR without perturbing the remainder of the GR structure.

(2) Improved Selectivity

The glucocorticoid receptor is closely related to the progesterone and mineralocorticoid receptors. The glucocorticoid, mineralocorticoid, and progesterone receptors differ significantly in their primary sequence and slightly in their tertiary structure. As a consequence of these receptor differences, ligands may bind with different affinity to these three receptors.

Furthermore, a detailed understanding of the different receptors enables the different behavior of a compound in different tissues to be understood, for example the glucocorticoid behavior of dissociated glucocorticoids or selective glucocorticoid receptor modulators (SGRMs) on the tissue in which it is active.

The present invention provides new ligands which exploit these differences by positioning ligand substituents in close proximity to one or more amino acid residue that differ between GR and PR, MR, or AR.

The ligands produced in accordance with the invention bind more effectively to the glucocorticoid receptor than to the mineralcorticoid, progesterone, or androgen receptor. The selectivity of the binding to the glucocorticoid receptor may be ten-fold, more preferably one hundred-fold, and most preferably greater than one thousand-fold.

This invention also provides a means of enhancing the selectivity of other classes of non-steroidal GR ligands.

(3) Modulation of Efficacy

This invention provides an understanding of the differences between glucocorticoid

and antiglucocorticoid binding and therefore a means to design GR ligands with the desired degree of efficacy. An examination of the differences between the GR/RU-486 and PR/progesterone complexes reveals a large movement in Helix-9 (Fig 4.). H9 adopts an "agonistic" conformation defined by the structure of the PR/progesterone complex and an "antagonistic" conformation defined by the structure of the GR/RU-486 complex. These two conformations are in thermodynamic equilibrium. When the GR is complexed with a full agonist, such as cortisol, the equilibrium lies far in the direction of the "agonistic" conformation. In contrast, while when complexed with an antagonist, the equilibrium is pushed in the direction of the "antagonistic" conformation. In the case of RU-486, the 11-beta aryl substituent sterically collides with H9 in its agonistic conformation, thereby driving the equilibrium strongly in the antagonistic direction. By introduction of progressively shorter side chains at 11-beta position of RU-486, the equilibrium will be gradually shifted back towards the agonist conformation. Thus, this invention provides a means of developing ligands with the desired degree of efficacy (agonist, partial agonist, or antagonist).

In particular, the importance of H9 has been determined as playing a central role in determining the efficacy (agonism vs. antagonism) of a ligand. Thus, ligands which are able to bind to and/or alter the conformation of H9 are of particular importance when designing a ligand or assessing the binding of a ligand, for the glucocorticoid receptor.

Additionally, it has been found that at least the majority of such receptor proteins when activated by binding to an agonist ligand are in the form a dimer (Khorasanizadeh S, Rastinejad F. "Nuclear-receptor interactions on DNA-response elements." Trends Biochem Sci. 2001 Jun;26(6):384-90.). Such dimerization leads to a potential route for disruption. Disruptions of this type can be used to predict antagonism or to produce antagonists. Disruptions may take the form of ligand binding which alters the conformation of the helices that comprise the dimerization interface or direct binding to the dimerization interface which then inhibits dimerization.

Further, the orientation of the ligand may be keyed to the receptor, in the dimeric or monomeric form. Furthermore, using the crystals of the present invention, the influence of ligand binding to the LDB on the receptor conformation can now be shown to have influences on the behavior of the receptor since it may disrupt the binding of co-activator, co-repressor, or heat-shock proteins. Previously, such predictions could not me made.

In the GR crystal structures identified the side chains involved in building up the ligand binding cavity are revealed. The ligand is well defined in the electron density map. Superposition of the ligand binding sites of the homologous agonist structures GR4 (dexamethasone), PR (PDB # 1A28, progesterone) and AR (PDB # 1I37, dihydrotestosterone). The A-ring side of the steroid hormone is situated in the most conserved protein side chain environment, with Phe623, Arg611, and Gln570, respectively, at identical positions (taking the error of the models in consideration). All these ligands are also very similar in their A and B-rings. On the D-ring side, on the other hand, unique features exist between different steroid ligands consistent with larger differences between corresponding cognate receptors in the D-ring-harboring part of the ligand-binding pocket. The largest variation in structure between the three receptor LBD's is seen for Gln642 (Leu797 in PR, Gln783 in AR). In GR, Gln642 makes a hydrogen bond to the 17a-hydroxy group. The position of the side-chains of the three other residues in GR-LBD that bind to the C/D-ring of the steroid (Asn564, 11b-hydroxy; Cys736, 20-keto; Thr739, 21-hydroxy) are relatively well conserved between the three structures. Thus, Gln642 appears to play a unique role in steroid recognition.

The binding of ligands is expected to alter GR activity. For example, the antihormone RU-486 (mifepristone) is an effective antiprogestin and antiglucorticoid that has shown clinical efficacy in both functions . It is also a weak antiandrogen. The function of the antagonistic action of RU-486 has been shown to be an active process and not just the blocking of agonist binding. Following the binding of RU-486, GR binds more tightly to specific DNA sequences with a slower dissociation rate . The antagonist ZK98299 appears to induce a differential PR conformation that affects the interaction with DNA . Thus, there is an interdomain functional interaction that is

dependent on the ligand bound. Further evidence of this has been found with regard to ligand-dependent phosphorylation of GR. Whereas both dexamethasone and RU-486 induce phosphorylation of Ser203, dexamethasone but not RU-486 induces phosphorylation of Ser211. This differential phosphorylation pattern was related to the intracellular location of the subspecies of GR. Binding of RU-486 blocks the binding of coactivators at the AF-2 site while simultaneously actively recruiting the binding of corepressor NCoR or SMRT. This function is again dependent on the N-terminal domain of GR although the corepressor interaction site is complex and involves sequences within the ligand-binding domain as well. In various model systems, RU-486 can act as an agonist in the absence of corepressor, acting through the N-terminal AF-1 site. The agonist function of RU-486 can also be shown for specific glucocorticoid-induced phenotypes such as the induction of p27^{Kip1}, part of the cytostatic action of glucocorticoids in osteosarcoma cells. A similar active antagonistic function of RU-486 has been shown with PR. Thus, a detailed analysis of the differences between the structures of GR bound to dexamethasone compared to RU-486 is of importance to understand how the ligand exerts different biological functions through one single receptor protein. This also shows that ligand binding is crutial to an understanding of the function of GR.

PRODUCTION OF GLUCOCORTICOID RECEPTOR CRYSTALS AND THEIR APPLICATION

The present inventors have been able to isolate, differentiate and produce crystals for the glucocorticoid receptor. Further, the differences between the GR and AR, ER, or PR receptors has been determined and, using these differences, the ability of a ligand to bind to the GR receptor or to either AR, ER, or PR can be predicted.

Preferably, the crystal is produced from a sequence comprising at least 150 amino acids, and preferably at least two hundred amino acids of GR. Preferably, the sequence comprises at least a portion of the ligand binding domain of GR. More preferably, the sequence comprises the whole ligand binding domain of GR.

Advantageously, the crystals have a resolution determined by X-ray crystallography of less than 3.6 Å and most preferably less than 2.9 Å. Preferably crystals grown using RU-486 have an effective resolution of lower than 2.9 Å.

The production of such crystals has enabled the three dimensional structure of the ligand binding domain of GR to be mapped. Use of such crystals in conjunction with the map enables a better understanding of how RU-486 and other anti-glucocorticoids bind to GR with precision. This technique can also enable the design of receptor selective glucocorticoid agonists and antagonists since now the precise differences in the binding sites between GR and the closely related AR, ER, and PR structures is now known.

Crystals of the GR binding domain can be used as models in methods for the design of synthetic compounds intended to bind to the receptor. Such models show why very slight differences in chemical moieties of a ligand potentially have widely varying binding affinities. Hence, the three dimensional structure of the ligand binding domain can be used a pharmaceutical model for compounds which bind to glucocorticoid receptors.

Embodiments of the invention will now be described in more detail, by way of example, with reference to the accompanying drawing.

Figure 1 shows modifications to the steroid nucleus to enhance its affinity for GR.

Figure 2 shows representative portions of a 2.8Å resolution SigmaA weighted 2

Fobs-Fcalc map where Fobs are the observed and Fcalc are the calculated structure-factor amplitutes and 2Fobs-Fcalc is the difference Fourier synthesis electron density map in which model error is reduced and electron density at the chosen contour (mesh diagram) approximates the molecular surface for the Ru-486-GR-LBD complex. The structure of RU-486 (tube diagram) is fitted to the experimental electron density (mesh diagram);

Figure 3 shows the GR3 crystal. The two crystallographic identical molecules are

coloured gray and dark gray.

Figure 4. Stereo picture showing the super position of GR1 (black) and GR2 (gray) and the binding of three RU-486 molecules in the asymmetric unit in the GR2 crystal form. The third RU-486 molecule in the GR 2 structure binds in the same vicinity as the approximate helix 9 position in the GR 1 structure.

Figure 5. Showing the superposition of the GR 3-dimer (light gray) and a PR monomer (black). Helix 9 undertakes a large conformational change of from the supposed agonistic position like in the PR-structure to the antagonist position in GR3. Helix 9 swings out and finds binding in a part of the coactivator pocket of an NCS molecule.

Figure 6. The dimer interface of the GR2 structure (light gray) shows that the helix 7 of the NCS molecule packs perpendicular to the N-terminal part of the NR-box II-peptide bound to the coactivator pocket in the 3ERD structure (black).

Figure 7 shows the human GR amino acid sequence aligned with the GR1, GR2 and GR3 sequences. Structural elements for the GR ligand binding domain are also shown.

DNA construction work

The human glucocorticoid receptor sequence is publicly available with accession number P04150 (SwissProt.) (Hollenberg, S. M. et al., Nature, 318: 635-41 (1985))

Over 40 different constructions have been made over the years with the goal to obtain a structure from a protein that was stable enough for crystallization and which had a fully liganded pocket and contained at least the ligand binding domain (LBD) as deduced from sequence alignment. A purification tag containing six histidine residues was also introduced at either the N- or the C-terminus with the possibility to remove by thrombin treatment.

Virus preparation

Two systems were used to create the recombinant AcNPV: BacVector (Novagen, USA) and Bac-To-Bac (Invitrogen, USA). Transfection was performed according to the manufacturers' protocols. The virus was scaled up in two steps to achieve a high titer virus stock. The virus titre was determined by a plaque assay (HyQ Bevs PlaKit, HyClone, USA).

Protein production

GR was recombinantly expressed using Bacculo virus infected insect cells. Spodoptera frugiperda (Sf9) cells (Invitrogen, USA) were maintained as suspension cultures in shake flasks and routinely passaged every third day. The serum-free medium, Sf900II (Invitrogen) was used with the addition of Gentamicin (15 mg mL⁻¹, Sigma-Aldrich). Two stirred tank reactors (Belach Bioteknik AB, Sweden), 20 and 100 L, were used for large-scale expression. Inoculum was prepared in stirred tank reactors, 3-10 L, (Belach Bioteknik AB, Sweden). The cells were cultured in Sf900II supplemented with Gentamicin (15 mg mL-1, Sigma-Aldrich), Pluronic F-68 (0.1%, Sigma-Aldrich) and Antifoam C (12ppm, Sigma-Aldrich). pH was monitored but not adjusted. The DOT was maintained at 40% by surface aeration at 3 L min-1 (20L) and 5 L min⁻¹ (100L) and intermittent purging with of oxygen at 200mL min⁻¹. The inoculum in the fermentor was 0.7 x 106 cells mL-1. The cells were infected with a recombinant A. californica nuclear polyhedrosis virus, AcNPV, (Novagen, Invitrogen, USA) containing the gene encoding for the hGR-LBD at approximately 1.5- 2.0 x 10⁶ cells mL-1 at MOI 5. Dexamethasone (Sigma-Aldrich) was added at the time of infection at a concentration of 6 mM. The cells were harvested after 48 hpi and pelleted in a swing-out centrifuge at 2000 rpm, 20 min, 4°C. After centrifugation the cell pellet was frozen in $N_2(1)$ and stored at -70°C.

Protein purification

Depending on expression levels 10-50 liters worth of frozen cells was disrupted by thawing in a cold degassed extraction buffer (50 mM Tris-HCl pH 8.0, 10% glycerol, 10 mM mono thioglycerol (MTG) + 50 mM dexamethasone) with a magnetic stirrer at +4C. The ratio was kept to $2-4 \times 10^7$ cells/ml extraction volume. The supernatant was

recovered after centrifugation and imidazole was added to final a concentration of 2 mM, and allowed to equilibrate with 50 ml pre-equilibrated (with extraction buffer with out MTG) Talon chelating resin (CloneTech). The His-tagged GR were then allowed to batch bind to the resin during one hour of slow rotation. Non-bound protein was eluted with extraction buffer (2.5 mM MTG) until UV-baseline was reached usually after 5-10 column volumes (CV). Unspecific proteins were removed with a salt wash, 5-10 CV (10 mM Tris-HCl pH8.0, 10% glycerol, 2.5 mM MTG, 200 mM NaSCN, 50 mM dexamethasone, followed by 5-10 CV of low ionic strength buffer (10 mM Tris-HCl pH8.0, 10% glycerol, 2.5 mM MTG, 50 mM dexamethasone). The GR was then batch eluted at 4 ml/min with 10 mM Tris-HCl pH8.0, 10% glycerol, 2.5 mM MTG, 50 mM imidazole and 50 mM dexamethasone. The Histidine-tag was removed by thrombin (10U/mg GR) cleavage overnight at +4°C. The cleaved protein was loaded on a Resource 30 Q cation exchange column (Amersham Biosciences, Sweden), equilibrated in A-buffer; 10 mM Tris-HCl pH 8.2, 10% glycerol, 2.5 mM DTT, 50 mM dexamethasone and subsequently eluted in a KCl gradient.

Ligand exchange

The pure protein was dialyzed (Slide-A-Lyzer, Pierce, USA) over 48 hours at +4°C against a 2x600 ml buffer containing 10 mM Tris-HCl pH 8.5-pH8.8, 2.5 mM DTT and 50 mM RU-486. GR was finally concentrated to 5-8 mg/ml in a Centriprep-30 (Millipore) for crystallization. Protein that was not immediately used was flash frozen in liquid nitrogen in 50 ml aliquots but the best crystals were obtained from fresh material.

Protein quality analysis

To elucidate the homogeneity of GR, throughout the purification samples were collected and run on SDS and native PAGE gels (Phast, Amersham Biosciences, Sweden). Reverse phase HPLC runs were performed on a Waters HPLC system. (Waters, USA) at denaturing conditions. Typically, 100 ml sample was acidified by addition of 10% acidic acid (final concentration). A sample was injected and eluted in a 25-75% acetonitrile-water gradient in 0.1% triflouroacidic acid at 1 ml/min. The method proved to be very useful to reveal problems with ligand binding and GR

stability and for determine the concentration and GR-ligand ratio.

Crystallization and data collection

Three crystal forms have been identified. The structure was first solved in the orthorhombic crystal lattice P2₁2₁2₁ to 3.5Å resolution. Later a hexagonal lattice, P6₅, was found which diffracted to better than 2.8Å and the crystallization was reproducible. The third crystal form is from another orthorhombic form P2₁2₁2, which diffracts to better than 2.8Å. Despite the problems with refining GR1 and GR2 important conclusions can be drawn using information from all three structures.

The P2₁2₁2₁ crystals - GR 1

The DNA construct for these crystals (GR 1) includes the part of the GR sequence as shown in Table 1. The pure protein was ultra centrifuged for 15 minutes at maximum speed in a Beckman ultracentrifuge prior to crystallization. Crystals grow in 1-15% PEG 8000, 0.05-0.1 M CaCl₂ and Tris pH 8.8 at 4°C. The crystals appear after less than a week and grow to a maximum size of 60x10x2 mm in heavy precipitate. Despite the very thin size they diffract to about 3Å at 17-ID at IMCA APS with a 30 second exposure. The crystals belong to the orthorhombic lattice, P2₁2₁2₁, with cell dimensions a=67.3 b=87.4 c=93.1 and have two molecules in the asymmetric unit. A collected data set was indexed and merged in HKL2000 (Otwinowski, Z. and M. W. (1997). Processing of X-ray diffraction data collected in oscillation mode. Methods in Enzymology. C. W. J. Carter and S. R.M. New York, Academic Press. 276.). The data is with 2 I/Sigma reflections to only 3.2 Å with a Rmerge of > 40% in the outer shell (Table 1). The structure was used initially before other data sets were available. The GR 1 coordinates are presented below.

Oscillation mode was as defined in Otwinoski, Z and M.W. (1997) Supra.

The P65 crystals - GR 2

The DNA construct for these crystals (GR 2) includes the part of the GR sequence as shown in Table 1. The pure protein was treated with enterokinase before

concentration to enzymatically remove helix 12 that was disordered in the P2₁2₁2₁ structure. GR crystals were obtained using standard vapor diffusion methods by mixing equal amounts of GR at 6 mg/ml and well solutions (1-1.5 M 1,6-hexanediol, 50 mM sodium citrate pH 5-6, 2 mM DTT at 12°C). The crystals grow as hexagonal rods in light precipitate over a period no longer than 3 weeks to a maximum size of 250x50x20 mm. The crystals were flash-cooled with the addition of 20% glycerol. On 17-ID IMCA-CAT beam line at Advanced Photon Source (APS) (Argonne National Laboratories), and a 10-second exposure, reflections could be seen to 2.5 Å on the attached ADSC Q-210 CCD detector. Several complete data sets to 2.8Å resolution could be collected and indexed in Mosflm6.11c (CCP4) and scaled in Scala (CCP4) (Table 1). The data was used to 2.8Å in subsequent refinement. The GR 2 coordinates are presented below.

The P2₁2₁2 crystals - GR 3

The DNA construct for these crystals (GR 3) includes the part of the GR sequence as shown in Table 1. This DNA construct contain three mutations. Asn517Asp to prohibit deamidation (data not shown) and the Phe602Ser mutant, which has been reported to stabilize GR for E. coli expression (Garabedian, M.J. & Yamamoto, K.R. Genetic dissection of the signaling domain of a mammalian steroid receptor in yeast. Mol Biol Cell 3, 1245-57. (1992).). Although we have not been able to verify this, nevertheless the construct also produced 2-3 times more protein in the Bacculo virus expression system as well (2-8 mg/liter). The third mutant is Cys638Asp, a surface exposed cysteine that impose problems during purification. An aspartic acid in that position helps to solubilize the GR protein. This crystal form was also crystallized at 12°C but in 15% PEG 8000, 900 mM 1,6-hexanediol, 600 mM NaSCN, 100 mM Tris pH 8.2. The crystals grow as rods to a maximum dimension of 280x80x80 mm. One crystal was cryo cooled using the well solution but with 20% PEG 8000 and 15% ethylene glycol. A complete data set to 2.8Å resolution was collected using a rotary anode source and the data was integrated in Mosflm and scaled in Scala (Table 1). The crystal belongs to the orthorhombic system $P2_x2_x2_x$ with the cell dimensions a= 74.5 b= 109.7 c= 39.1 and has one molecule in the asymmetric unit. The GR 3 coordinates are presented below.

Structure determination and refinement

GR 1

The first structure was solved by molecular replacement in CNX (Brünger, A. T., P. D. Adams, et al. (1998). "Crystallography & NMR system: A new software suite for macromolecular structure determination." Acta Crystallogr D Biol Crystallogr 54(Pt 5): 905-21.) using a PR monomer as the search model (Williams, S. P. and P. B. Sigler (1998). "Atomic structure of progesterone complexed with its receptor." Nature 393(6683): 392-6.). Only one rotation function peak was found and a self-rotation map was quite flat. On a translation search, two solutions were above the background. The two monomers in the asymmetric unit are translationally related. This is in accordance with ultra centrifugation studies indicating that GR-LBD is a monomer in solution.

After several rounds of refinement in CNX and utilizing density modification methods like solvent flattening and NCS averaging in DM (Cowtan (1994), Newsletter on Crystallography, 31, pages 34-38), the crystallographic Rfactor was still 35% with an Rfree of 45%. Positive density in fofc maps show without doubt electron density for the ligand RU-486 and also some traces of helix 12.

GR 2

The second crystal form was solved by molecular replacement in Molrep (Vagin, A. & Teplyakov, A. MOLREP: an automated program for molecular replacement. *J. Appl. Cryst.* 30, 1022-1025 (1997)), using the P2₁2₁2₁ model without helix 12. Two molecules were found in the asymmetric unit related by a two fold axes. Standard procedure involving rigid body and subsequent refinement in CNX involving Torsion angle dynamics, slow cool and restrained B factor refinement utilizing restrained NSC two fold averaging. The Rfactor was 26.6% with an Rfree of 32.3%. Initial maps showed very nice density for most of the protein and particular the RU-486 molecule.

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GR 3

The third crystal form was solved in Molrep, using a model without helix12. One giant peak appeared in the rotation function map. A systematic search in the translation function revealed that the P22₁2₁ solution that stuck out with R 52 % and a CC 34%. After transformation to the standard setting in 2₁2₁2, refinement was started in CNX. The Rfactor dropped during the initial round of rigid body, B-factor and refinement to 39% without any manual model building. RU-486 ligands were included in the CNX refinement by building the necessary libraries using XPLO2D (Kleywegt, G. J. (1995). "Dictionaries for heteros." CCP4/ESF-EACBM Newsletter on Protein Crystallography 31: 45-50.). During the iterative refinement round the missing part of residues after 738-777 was built with the Grab_build command introduced in O version 8.04 (Jones, T. A., J. Y. Zou, et al. (1991). "Improved methods for building protein models in electron density maps and the location of errors in these models." Acta Crystallogr. A 47: 110-119.).

In the crystal structure GR 3 (Figure 3) an intermolecular disulphide is formed between the 2-fold symmetry related Cys736. Helix 12 from one molecule binds perpendicular to the cooactivation pocket a neighbouring molecule

Structure description

The overall structure is similar to that of the Progesterone receptor (PR, (Williams, S. P. and P. B. Sigler (1998) Nature 393(6683): 392-6.) but important differences can be seen be seen especially the antagonist induced conformational change after residue Asn734. The two structures can be superimposed) with and r.m.s fit on C-alpha of 0.975 Å for residues GR530-734 and PR686-889. The aligned structures share a 56.2% sequence identity. In the GR 3 structure, clear electron density (Figure 2) can be seen from most of the amino acid range from 530 to 777 of the full-length receptor sequence. There is one missing loop 759-767 after helix 12. The loop between helix 10 and helix 11 is poorly defined in the electron density map.

The structure without Helix 9

Since antagonized (GR) protein has a less rigid C-terminus which increases the difficulties to form crystals and no protein could be recovered on shorted constructs without helix 9, enterokinase was used to remove helix 9. On binding of RU-486 helix 9 becomes displaced and enterokinase sensitive. Complete removal of helix 9 could be accomplished on a few hours of cleavage at +4°C. With an agonist bound to GR (e.g. dexamethasone), the protein was only partly cleaved by enterokinase and only after a several days at +4°C (data not shown). Again the overall structure is similar to PR with the same arrangement of helices. Part of the coactivator pocket is occupied by helix 7 from the NCS molecule (FIG 6.). Helix 7 is bound approximately perpendicular to the first turn of the coactivator peptide helix from the ER-TTF complex structures (3ERD,). In the structure, clear density was seen for a third RU-486 molecule bound in-between the NSC protein molecules in Van der Wahl's contact with the two other correctly bound RU-486 molecules (FIG 4.). The protein was crystallized in excess of RU-486 ligands. The C17 extension of the third ligand reaches towards the hydrophobic part of the coactivator pocket.

The whereabouts of Helix 9 and the C-terminus

Many models have been published of GR based on PR agonist structure (see e.g. Ray, D. W., C. S. Suen, et al. (1999) Mol Endocrinol 13(11): 1855-63.) But to model an antagonist conformation is much more difficult due to the large conformational change of helix 9 that could be seen in for example the ER raloxifene structure (Brzozowski, A. M., A. C. Pike, et al. (1997) Nature 389(6652): 753-8.). To function as an antagonist the only criteria is that helix 9 must be displaced and somehow prohibit binding of the coactivator. There does not seem to be a general way to antagonize a nuclear hormone receptor making it almost impossible to model without access of direct structural data.

The dimethylaniline side chain of RU-486 prohibits binding of helix 9 in the agonist position as seen in the PR structure. Instead helix 7 is shortened and stretched out starting with the residue of the internal Cys636 whose side chain which swings or

rotates out to the surface. Interestingly an intermolecular disulphide is formed within the crystal lattice with 2-fold symmetry related cysteine from a neighboring molecule which thereby rigidifies the loop between helix 7 and helix 7a (Figure 3). The distance between the two sulphur atoms is 2.5Å. Helix 9 enters the same symmetry molecule and binds in a cavity in-between the agonist position of helix 9 from the PR structure and the coactivator pocket revealed by the ER-alpha TIF2 structures (Pike, A.C., Brzozowski, A.M. & Hubbard, R.E. J Steroid Biochem Mol Biol 74, 261-8. (2000).). But the orientation of GR helix 9 is the opposite of that of PR helix 12 (FIG 5). To our surprise a long stretch of electron density was seen on the surface between helix 6 and 7. The origin was no doubt from amino acid origin. This stretch of 10 residues matched perfectly the position of the C-terminus of PR, showing that this conformation can also be seen in an antagonized structure. This means that Helix 9 enters the neighboring molecule and the remaining part of the protein folds back and returns with the C-terminus to its parent molecule. This tail seems to be important in stabilizing the GR protein. Constructs with shorter C-terminus showed no or very low expression levels.

Table 1. Summary of data collection, processing and refinement of the three GR crystals forms.

Structure name	GR1	GR2	GR3	
Construct	JY142, JY158	MF7, JY178, JY189	ЈҮ179	
Sequence	500-777	519-744¹	500-777	
Mutants	C638D	C638D	N517D, F602S, C638D	
Space group; mol/au	P2 ₁ 2 ₁ 2 ₁ ;2	P6 ₅ ; 2	P2 ₁ 2 ₁ 2; 1	
X-ray source	17-ID IMCA-CAT	17-ID IMCA-CAT	Rotating anode	
Detector	MAR-CCD	ADSC Q-210	MAR 345 image plate	
Wave length (Å)	1.00	1.00	1.54	
Temperature (K)	100	100	100	
Resolution (Å)	48-3.5Å	48-2.8Å	40-2.8Å	
Unit-cell parameters (Å)	a=67.3, b=87.4, c=93.1	a=b=132.1, c=53.0	a=74.5, b=109.7, c=39.1	
Protein content (%)	53	59	47	
Total number of reflections	n/a	79024	83279	
No. of unique reflections	9502	13168	8219	
Completeness (%)	95	100, (80) ²	98.1 (98.0) ¹	
•	n/a	5.3 (1.2) ³	6.7 (2.1) ²	
IJσ	n/a	6.0	4.6	
Redundancy	21.0(42.7)2	13.1 (61.1) ²	10.6 (34.8) ²	
Rsym (%)	n/a	17.2 (80.6) ²	14.0 (49.0) ²	
PVC4 (%)	n/a	77	43	
Wilson B (Ų)	0.5	0.5	0.6	
Mosaicity (°)				
Number of atoms in a.u.:	3594	3383	1952	
Protein	64	96	32	
Ligand	n/a	2	21	
Water	n/a	o	24	
Hexanediol Final Rfactor/Rfree (%)	34.4 (46.8)	26.6 (32.2)	22.8 (26.3)	

¹ C-terminal end after enterokinase digestion.

² Low resolution bin due to overloads.

³ Highest resolution bin.

⁴ Pooled coefficient of variation relative to overall mean (Diederichs, K. & Karplus, P.A. Improved R-factors for diffraction data analysis in macromolecular

cyrstallography. Nat Struct Biol 4, 269-75 (1997).)

Crystals of GR-LBD with an Agonist

The crystal structure of the ligand binding domain of human glucocorticoid receptor in complex with agonist Dexamethasone and a coactivator peptide (TIF2 NR-box3) has been determined and refined to 2.8 Å resolution.

DNA construction work

Over 40 different constructions have been made over the years with the goal to obtain a protein that was stable enough for crystallization and which had a fully ligandated pocket and contained at least the ligand binding domain (LBD) as deduced from sequence alignment. A purification tag containing six residues was also introduced at either the N- or the C-terminus with the possibility to remove by thrombin treatment.

Virus preparation

Two systems were used to create the recombinant AcNPV: BacVector (Novagen, USA) and Bac-To-Bac (Invitrogen, USA). Transfection was done according to the manufacturers' protocols. The virus was scaled up in two steps to achieve a high titer virus stock. The virus titre was determined by a plaque assay (HyQ Bevs PlaKit, HyClone, USA).

Protein production

GR was recombinantly expressed using Bacculo virus infected insect cells. Spodoptera frugiperda (Sf9) cells (Invitrogen, USA) were maintained as suspension cultures in shake flasks and routinely passaged every third day. The serum-free medium, Sf900II (Invitrogen) was used with the addition of Gentamicin (15 µg mL⁻¹, Sigma-Aldrich).

Two stirred tank reactors (Belach Bioteknik AB, Sweden), 20 and 100 L, were used for large-scale expression. Inoculum was prepared in stirred tank reactors, 3-10 L, (Belach Bioteknik AB, Sweden). The cells were cultured in Sf900II supplemented with Gentamicin (15 µg mL⁻¹, Sigma-Aldrich), Pluronic F-68 (0.1%, Sigma-Aldrich) and Antifoam C (12ppm, Sigma)Aldrich). pH was monitored but not adjusted. The DOT was maintained at 40% by surface aeration at 3 L min⁻¹ (20L) and 5 L min⁻¹ (100L) and intermittent sparging of oxygen at 200 mL min⁻¹. The inoculum in the

fermentor was 0.7×10^6 cells mL⁻¹. The cells were infected with a recombinant A. californica nuclear polyhedrosis virus, AcNPV, (Novagen, Invitrogen, USA) containing the gene encoding for the hGR-lbd at approximately $1.5\text{-}2.0 \times 10^6$ cells mL⁻¹ at MOI 5. Dexamethasone (Sigma-Aldrich) was added at the time of infection at a concentration of 6 μ M. The cells were harvested after 48 hpi and pelleted in a swing-out centrifuge at 2000 rpm, 20 min, 4°C. After centrifugation the cell pellet was frozen in N₂(1) and stored at 70° C.

Protein purification

Depending on expression levels 10-50 litres worth of frozen cells was disrupted by thawing in a cold degassed extraction buffer (50 mM Tris-HCl pH 8.0, 10% glycerol, 10 mM mono thioglycerol (MTG) + 50 µM dexametasone) with a magnetic stirrer at +4C. The ratio was kept to 2-4 x 10° cells/ml extraction volume. The supernatant was recovered after centrifugation and one wash step and poured into a 1-litre flask with the addition of imadazole to final a concentration of 2 mM and 50 ml a pre-equilibrated (with extraction buffer without MTG) Talon chelating resin (CloneTech). The His-tagged GR were then allowed to batch bind to the resin during one hour of slowly rotation. This step was crucial for speed and to have an even distribution of GR in the resin. The slurry was briefly centrifugated 700 x g for 2 minutes and most of the supernatant was discarded. The matrix was transferred to an XK50 column (Amersham-Pharmacia Biotech) and manually packed in the cold room with the high flow rate given by the gravity. Non-bound protein was eluted with extraction buffer (2.5 mM MTG) until UV-baseline was reached usually after 5.10 column volumes (CV). Unspecific proteins were removed with a salt wash, 5-10 CV (10 mM Tris-HCl pH8.0, 10% glycerol, 2.5 mM MTG, 200 mM NaSCN, 50 μM dexametasone, followed by 5-10 CV of low ionic strength buffer (10 mM Tris-HCl pH8.0, 10% glycerol, 2.5 mM MTG, 50 μ M dexametasone). The XK50 column was then connected to an FPLC-system (Amersham-Pharmacia Biotech) at +4C. The GR was then batch eluted at 4 ml/min with 10 mM Tris-HC1 pH8.0, 10% glycerol, 2.5 mM MTG, 50 mM immidazole and 50 µM dexametasone. The Histidine-tag was removed by thrombin (10U/mg GR) cleavage overnight at +4C. The cleaved protein was loaded on a Resource 30 O cation exchange column (Amersham-Pharmacia

Biotech). The GR was washed at 1 ml/min in A-buffer; 10 mM Tris-HC1 pH 8.2, 10% glycerol, 2.5 mM DTT, 50 μM dexametasone and subsequently eluted in a KC1 gradient. The main peak was collected, at ~100-125 mM KCl, and diluted one time with the A-buffer without ligand and concentrated with a Centriprep-30 (MilliPore) to 8-40 mg/ml.

Crystallization, data collection and structure solution

Crystals were grown using hanging drop vapor diffusion methods. By mixing 1:1 of protein with the presence of TIF2 NR-box 3 peptide with well solution containing, 10-15% PEG550 MME, 0.1-0.2 M MgCl and Hepes pH 7.6. Crystal were grown at 10°C and appeared after 1 day and grew over a week to maximum dimension of 100x100x50 micrometer. Crystals were flash cooled in liquid nitrogen gas stream with the addition of extra PEG550 MME. A full dataset to 2.8Å could be collected on ID14-4 beamline at ESRF, France. The data was indexed and processed in Mosflm and scaled in Scala.

The crystals belong to the triclinic space group P3₁ with a pair of dimers in the assymetric unit. The solvent content is 65% and cell dimensions are a=b=127.4, c=91.8, α = β =90°, γ =120°. The structure was solved by molecular replacement using Molrep and a model based on the coordinates of the antagonist form of GR-LDB solved at Karo Bio previously, together with the N-terminal part of the progesterone receptor.

ANNEX

```
GR 1
REMARK coordinates from simulated annealing refinement
REMARK refinement resolution: 20.0 - 3.2 A
REMARK starting r= 0.3642 free r= 0.4500
REMARK final r= 0.3436 free r= 0.4685
REMARK rmsd bonds= 0.009741 rmsd angles= 1.63529
REMARK wa_initial= 14.7646 wa_dynamics= 16.8608 wa_final= 18.2355
REMARK target= mlf md-method= torsion annealing schedule= slowcool REMARK starting temperature= 3500 total md steps= 140 * 6
REMARK sg= P2(1)2(1)2(1) a= 67.331 b= 87.423 c= 93.109 alpha= 90.000 beta= 90.000
REMARK parameter file 1 : MSI_CNX_TOPPAR:protein_rep.param
REMARK parameter file 2 : MSI_CNX_TOPPAR:water_rep.param
REMARK parameter file 3 : MSI_CNX_TOPPAR:ion.param
REMARK molecular structure file: gen.mtf
REMARK input coordinates: ../Quanta/x3in.pdb
REMARK reflection file= gr31401c.cv
REMARK ncs= restrain ncs file= ncs2.def
REMARK B-correction resolution: 6.0 - 3.2
REMARK warning: B-correction gave atomic B-values less than zero
REMARK they have been reset to zero
REMARK B-factor correction applied to coordinate array B: -1.232
REMARK bulk solvent: (Mask) density level= 0.323811 e/A^3, B-factor= 40.0116 A^2 REMARK reflections with |Fobs|/sigma F < 0.0 rejected REMARK reflections with |Fobs| > 10000 * rms(Fobs) rejected REMARK theoretical total number of refl. in resol. range: 9452 ( 100.0 % )
                                                                          1105 ( 11.7 %)
0 ( 0.0 %)
8347 ( 88.3 %)
7481 ( 79.1 %)
866 ( 9.2 %)
REMARK number of unobserved reflections (no entry or |F|=0):
REMARK number of reflections rejected:
REMARK total number of reflections used:
REMARK number of reflections in working set:
REMARK number of reflections in test set:
REMARK FILENAME="x3out 1.pdb"
REMARK DATE:Mar-23-2001 17:22:01
                                               created by user: jakobc
REMARK Written by CNX VERSION:2000
           1 CB THR A 531
2 OG1 THR A 531
                                   17.370 82.851
                                                          9.433 1.00 10.49
                                                                                           С
                    THR A 531
ATOM
                                               81.601 10.104 1.00
83.353 9.802 1.00
                                                                         9.94
                                      17.599
MOTA
                                                         9.802
                                                                         9.76
                                      15.970
ATOM
              CG2 THR A 531
                                               83.353
                                               81.742
                                     18.675
18.740
                                                                         9.15
                                                         7.570
                                                                  1.00
                                                                                     A
MOTA
              С
                    THR A 531
                                                                  1.00
                                                          6.496
                                               81.143
                                                                                     A
MOTA
           5
               0
                    THR A 531
                                     16.202
17.476
                                                         7.355
                                                                  1.00
                                                                         9.48
                                               82.064
                    THR A 531
ATOM
            6
               N
                                               82.652
                                                         7.893
                                                                         9.78
                                                                  1.00
              CA
ATOM
           7
                    THR A 531
                                     19.629
20.788
                                               81.659
                                                          8.489
                                                                1.00
                                                                         B.00
                    LEU A 532
ATOM
           8
              N
                                               80.799
                                                         8.293 1.00
                                                                         8.09
              CA LEU A 532
           9
ATOM
                                                                         9.46
                                                          8.049
                                                                 1.00
                                                                                           C
          1.0
              CB
                    LEU A 532
                                      22.051
                                               81.619
ATOM
                    LEU A 532
                                      23.313
                                               80.775
                                                         7.817
                                                                 1.00 11.09
               CG
ATOM
          11
              CD1 LEU A 532
                                      23.086
                                               79.759
                                                          6.698
                                                                 1.00 12.14
                                                                                     A
                                                                                           C
ATOM
          12
                                                         7.474 1.00 12.26
9.503 1.00 7.70
          13
               CD2 LEU A 532
                                      24.471
                                               81.696
                                                                                           C
ATOM
                    LEU A 532
                                      20.991
                                               79.900
                                                                                     A
                                                                                           C
          14
ATOM
               С
                                                          9.471
                                                                 1.00
          15
               0
                    LEU A 532
                                      21.802
                                               78.978
                                                                         6.48
                                                                                           0
ATOM
                                                                                           N
                    VAL A 533
                                      20.264
                                               80.188
                                                        10.577
                                                                         7.40
                                                                                     Α
          16
               N
ATOM
                                                                                           C
          17
                    VAL A 533
                                      20.337
                                               79.377
                                                        11.777
                                                                 1.00
                                                                         5.56
ATOM
               CA
                                                                 1.00
                                                                                           c
          18
                    VAL A 533
                                      20.235
                                               80.218
                                                        13.057
                                                                         2.78
                                                                                     A
ATOM
               СВ
                                                                1.00
                                                                                           c
                                                                         1.48
              CG1 VAL A 533
                                                                                     Α
                                      20,129
                                               79.313
                                                        14.267
ATOM
                                                                         0.93
                                                                                           С
                                                                                     Α
               CG2 VAL A 533
                                      21.460
                                               81.082
                                                        13.197
MOTA
          20
                                                                 1.00
                                                        11.709
12.275
                                                                         6.41
                                                                                     Α
ATOM
                    VAL A 533
                                      19.144
                                               78.444
                                                                         7.82
                                                                                     A
ATOM
          22
               0
                    VAL A 533
                                      19.157
                                               77.352
                                                        10.987
                                                                         6.70
                                                                                     A
                                                                 1.00
MOTA
          23
                    SER A 534
                                      18.117
                                               78.874
              N
                                                                 1.00
                                                                         6.99
                                               78.084
ATOM
          24
               CA SER A 534
                                      16.910
                                               78.916
                                                        10.141
                                                                 1.00
                                                                         5.93
                                      15.859
ATOM
          25
               CB
                    SER A 534
                                                        10.914
                                                                 1.00
                                               80.066
                                                                         3.58
                                     15.584
ATOM
          26
               OG
                   SER A 534
                                               76.747
75.709
                                      17.140
                                                        10.135
                                                                 1.00
                                                                         7.68
                    SER A 534
ATOM
          27
               C
                                                        10.573
                                                                 1.00
                                                                         6.28
                    SER A 534
                                     16.632
ATOM
          28
               0
                                   · 17.886
18.144
                                               76.745
75.471
                                                         9.034
                                                                 1.00
                                                                         7.43
                    LEU A 535
ATOM
          29
              N
                                                         8.378
                                                                 1.00
                                                                         6.23
                   LEU A 535
ATOM
          30
               CA
                                      18.894
                                                         7.061
                                                                 1.00
                                                                         4.05
                                                                                     À
                    LEU A 535
                                               75.653
MOTA
          31
               CB
                                               76.496
                                                         7.032
                                                                 1.00
                                                                         4.29
                    LEU A 535
                                      20.156
ATOM
          32
               CG
                                      20.920
                                               76.201
                                                         5.756
                                                                         4.78
               CD1 LEU A 535
                                                                 1.00
ATOM
          33
                                               77.961
                                                         7.123
                                                                 1.00
              CD2 LEU A 535
                                      19.791
                                                                         3.69
MOTA
          34
                                                         9.369
                                                                 1.00
                    LEU A 535
                                      18.975
                                               74.664
                                                                         6.12
ATOM
          35
              С
                                                                 1.00
                    LEU A 535
                                      18.636
                                               73.528
                                                          9.689
                                                                         6.16
              Ο
ATOM
          36
                    LEU A 536
                                      20.053
                                               75.265
                                                         9.869
                                                                 1.00
                                                                         6.13
                                                                                           N
          37
              N
MOTA
                   LEU A 536
                                               74.603
                                                        10.864
                                                                 1.00
                                                                         5.42
                                      20.891
              CA
ATOM
          38
                                               75.610
                                                        11.599
                                                                 1.00
                                                                         2.05
                                                                                           С
              CB
                   LEU A 536
                                      21.785
          39
MOTA
                                      23.002 76.239
                                                        10.929
                                                                 1.00
                                                                         0.00
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              CG
                   LEU A 536
ATOM
          40
              CD1 LEU A 536
                                      23.777
                                               77.057
                                                        11.959
                                                                 1.00
                                                                         0.00
                                                                                     A
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          41
MOTA
                                      23.879 75.157
                                                        10.360
                                                                 1.00
                                                                         0.00
                                                                                           C
              CD2 LEU A 536
          42
MOTA
                                                                                           С
                                      19.935 73.984
                                                        11.876
                                                                 1.00
                                                                         6.65
              С
                    LEU A 536
MOTA
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ATOM	44	0	LEU A	536	20.011	72.796	12.183	1.00	5.88	A	0
ATOM	45	N		537	19.028	74.813	12.379	1.00	6.98	A	N
ATOM	46	CA	GLU A		18.034	74.374	13.346	1.00	7.20	A	C
ATOM	47	CB	GLU A		16.852	75.350	13.374	1.00	5.84 2.71	A A	C
ATOM	48	CG		537	15.535	74.742 74.915	13.883 15.366	1.00	1.81	A	č
ATOM	49	CD	GLU A		15.340 16.353	75.046	16.069	1.00	0.00	A	ŏ
ATOM	50 51	OE2		537	14.179	74.910	15.827	1.00	1.49	A	0
atom atom	52	C		537	17.508	72.984	13.026	1.00	7.81	A	С
ATOM	53	ŏ	GLU A		17.641	72.055	13.829	1.00	9.37	A	0
ATOM	54	N	VAL A		16.926	72.841	11.843	1.00	7.03	A	N
ATOM	55	CA	VAL A	538	16.336	71.575	11.458	1.00	6.67	A	C
ATOM	56	CB		538	15.099	71.843	10.548	1.00	7.82	A	C
ATOM	57			538	13.870	72.173	11.412	1.00	5.42	A	C
ATOM	58		VAL A		15.381	73.030	9.619	1.00	7.08 6.98	A A	c
ATOM	59	C	VAL A		17.243 16.755	70.483 69.430	10.852 10.451	1.00	7.93	A	ŏ
ATOM	60 61	O N		538 539	18.554	70.712	10.797	1.00	7.66	A	N
ATOM ATOM	62	CA	ILE A		19.471	69.690	10.266	1.00	7.52	A	С
ATOM	63	CB	ILE A		20.483	70.261	9.202	1.00	7.78	A	С
ATOM	64			539	19.772	71.197	8.240	1.00	8.38	A	С
ATOM	65	CG1	ILE A	539	21.622	71.015	9.889	1.00	5.14	A	Ç
ATOM	66			539	22.733	71.376	8.958	1.00	1.63	A	C
ATOM	67	C		539	20.282	69.098	11.426	1.00	7.61 7.15	A A	Ö
ATOM	68	0	ILE A		21.271	68.386 69.417	11.222 12.641	1.00	7.08	A	N
ATOM	69 70	n Ca	GLU A		19.854 20.510	68.950	13.846	1.00	6.48	A	Ĉ
ATOM ATOM	71	CB		540	20.218	69.922	14.991	1.00	7.02	A	Ċ
ATOM	72	CG		540	21.410	70.745	15.441		10.25	A	C
ATOM	73	CD		540	22.081	71.478	14.296		12.97	A	С
ATOM	74	OE1	GLU A	540	23.049	72.246	14.534		13.29	A	0
MOTA	75	OE2	GLU A		21.635	71.279	13.148		13.53	A	0
ATOM	76	С	GLU A		20.043	67.540	14.210	1.00	5.41 4.81	A A	C
ATOM	77	0	GLU A		19.021	67.365 66.515	14.873 13.775	1.00	4.19	A	N
ATOM	78 79	N CD		541 541	20.794 22.118	66.600	13.126	1.00	2.90	A	Ċ
ATOM ATOM	80	CA		541	20.456	65.123	14.059	1.00	3.73	A	С
ATOM	81	СВ	PRO A		21.824	64.460	14.045	1.00	3.12	A	С
ATOM	82	CG	PRO A		22,473	65.155	12.893	1.00	3.20	A	C
MOTA	83	С	PRO A		19.710	64.964	15.385	1.00	3.10	A	C
ATOM	84	0	PRO A		19.994	65.688	16.345	1.00	1.61	A A	O N
ATOM	85	N	GLU A		18.767 17.965	64.016 63.804	15.436 16.641	1.00	2.43 3.09	A	Č
ATOM	86 87	CA CB	GLU A GLU A		16.535	63.380	16.251	1.00	3.65	A	č
ATOM ATOM	88	CG	GLU A		15.440	64.127	17.060	1.00	5.77	A	C
ATOM	89	CD	GLU A		14.017	63.956	16.502	1.00	6.88	A	С
ATOM	90	OE1	GLU A	542	13.826	64.177	15.283	1.00	7.55	A	0
ATOM	91	OE2	GLU A		13.088	63.619	17.287	1.00	5.07	A	0
ATOM	92	C	GLU A		18.526	62.860	17.715	1.00	3.12 2.31	A A	C O
ATOM	93	0		542	19.414	62.051 63.017	17.458 18.929	1.00	3.73	A	и
MOTA MOTA	94 95	N CA	VAL A		17.998 18.370	62.241	20.115	1.00	3.10	A	Ċ
ATOM	96	CB	VAL A		17.197	62.204	21.125	1.00	1.86	A	С
ATOM	97		VAL A		17.264	63.376	22.090	1.00	1.42	A	С
ATOM	98	CG2	VAL A	543	15.882	62.253	20.367	1.00	0.28	A	c
MOTA	99	C	VAL A		18.745	60.806	19.796	1.00	3.08	A	C
ATOM	100	0	VAL A		17.874	59.995	19.520 19.837	1.00	4.06 2.67	A A	O N
MOTA	101 102	N Ca	LEU A LEU A		20.034 20.470	60.488 59.124	19.552	1.00	4.11	A	ĉ
ATOM ATOM	103	CB	LEU A		21.998	59.020	19.479	1.00	6.58	A	C
ATOM	104	CG	LEU A		22.657	59.317	18.125	1.00	8.79	A	С
ATOM	105		LEU A		24.142	58.987	18.179	1.00	8.45	A	C
ATOM	106	CD2	LEU A		21.990	58.495	17.034	1.00	9.79	A	C
ATOM	107	С	LEU A		19.965	58.165	20.613	1.00	4.34	A	C
ATOM	108	0	LEU A		20.399	58.204	21.760	1.00	3.37 5.72	A A	O N
ATOM	109	N	TYR A		19.041	57.300 56.324	20.217 21.136	1.00	4.06	A	Č
MOTA	110 111	CA CR	TYR A		18.472 16.996	56.060	20.785	1.00	1.37	Ā	č
ATOM ATOM	112	CG .	TYR A		16.023	56.763	21.695	1.00	0.00	A	č
ATOM	113		TYR A		16.070	56.568	23.062	1.00	0.00	A	С
ATOM	114		TYR A		15.133	57.169	23.913	1.00	0.00	. A	C
ATOM	115		TYR A		15.021	57.584	21.183	1.00	0.00	A	C
MOTA	116		TYR A		14.071	58.191	22.026	1.00	0.00	A	C
ATOM	117	CZ	TYR A		14.132	57.974 58.496	23.386 24.218	1.00	0.00	A A	ŏ
ATOM	118 119	OH C	TYR A		13.176 19.281	55.021	21.140	1.00	4.25	A	Č
ATOM ATOM	120	0	TYR A		19.281	54.119	20.317	1.00	4.51	A	ŏ
ATOM	121	N	ALA A		20.195	54.946	22.092	1.00	2.99	A	N
ATOM	122	CA	ALA A		21.039	53.784	22.245	1.00	4.16	A	C
ATOM	123	CB	ALA A		22.185	54.106	23.211	1.00	4.14	A	C
MOTA	124	С	ALA A	546	20.225	52.603	22.772	1.00	4.78	A	С

ARCH 125												
1.06 No. 1.07 No. No		125 0	. 75	T.A. A.	546	20.339	51.472	22.289				
ATOM 129 C G LIY A 547 19.675 51.080 24.345 1.00 5.60							52.879					
AFFORM 128 C GLY A 547 19.679 3.1047 24.1598 1.00 6.37 A N AFFORM 130 N TYR A 548 21.585 51.452 52.6471 1.00 6.53 A N AFFORM 131 CA TYR A 548 21.585 51.452 52.6471 1.00 9.30 A C AFFORM 132 CB TYR A 548 21.785 51.452 27.389 1.00 8.77 A C AFFORM 132 CB TYR A 548 21.785 51.452 29.567 1.00 11.60 A C AFFORM 135 CB TYR A 548 21.785 51.275 1.005 29.567 1.00 11.60 A C AFFORM 135 CB TYR A 548 22.801 51.247 30.945 1.00 10.99 A C AFFORM 135 CB TYR A 548 22.801 51.247 30.945 1.00 10.99 A C AFFORM 135 CB TYR A 548 22.801 51.247 30.945 1.00 10.99 A C AFFORM 135 CB TYR A 548 24.132 50.447 29.885 1.00 8.15 A C AFFORM 137 CB TYR A 548 24.132 50.447 29.885 1.00 8.15 A C AFFORM 137 CB TYR A 548 24.132 50.447 29.885 1.00 8.15 A C AFFORM 137 CB TYR A 548 24.132 50.447 29.885 1.00 8.15 A C AFFORM 137 CB TYR A 548 24.132 50.447 29.885 1.00 8.15 A C AFFORM 137 CB TYR A 548 24.132 50.447 29.885 1.00 8.15 A C AFFORM 137 AFFOR												
AROM 129 O GÉY À 547 1 29.505 51.152 25.471 1.00 6.53 A N AROM 130 N TYR À 548 20.591 51.347 27.399 1.00 8.77 A C C AROM 131 CA TYR À 548 20.591 51.347 28.667 1.00 9.30 A C AROM 132 CO TYR À 548 21.699 51.297 30.945 1.00 11.60 A. C C AROM 134 CO TYR À 548 21.699 51.297 30.945 1.00 11.60 9.30 A C C AROM 134 CO TYR À 548 21.699 51.297 30.945 1.00 11.60 9.30 A C C AROM 135 COL TYR À 548 21.699 51.297 30.945 1.00 10.09 A C C AROM 136 COL TYR À 548 23.017 50.635 29.048 1.00 10.10 9.30 A C C AROM 136 COL TYR À 548 23.017 50.635 29.048 1.00 10.09 A C C AROM 138 C TYR À 548 24.008 50.689 31.250 1.00 8.65 A C C AROM 138 C TYR À 548 24.008 50.689 31.250 1.00 8.65 A C C AROM 138 C TYR À 548 24.008 50.689 31.250 1.00 8.92 A C C AROM 138 C TYR À 548 24.008 50.689 31.250 1.00 8.92 A C C AROM 138 C TYR À 548 24.008 50.689 31.250 1.00 8.92 A C C AROM 138 C TYR À 548 24.008 50.689 31.250 1.00 8.92 A C C AROM 138 C TYR À 548 24.008 50.689 31.250 1.00 8.92 A C C AROM 140 C TYR À 548 24.008 50.689 31.250 1.00 8.92 A C C AROM 140 C TYR À 548 24.008 50.689 31.250 1.00 8.92 A C C AROM 140 C TYR À 548 24.008 50.689 31.250 1.00 8.92 A C C AROM 140 C TYR À 548 20.000 39.22 28.317 1.00 9.86 A N C AROM 142 C ASP À 549 20.202 46.984 28.696 1.00 8.90 A C C AROM 142 C ASP À 549 20.202 45.984 28.696 1.00 8.90 A C C AROM 147 COL ASP À 549 22.325 45.713 28.044 1.00 8.79 A C C AROM 147 COL ASP À 549 22.325 45.713 28.044 1.00 8.79 A C C AROM 147 COL ASP À 549 22.325 45.713 28.044 1.00 8.90 A C C AROM 147 COL ASP À 549 22.325 45.713 28.044 1.00 8.90 A C C AROM 145 C ASP À 549 12.206 47.305 30.805 1.00 8.48 A A C C AROM 147 C C ASP À 549 12.206 47.305 30.805 1.00 8.48 A A C C AROM 149 O ASP À 549 11.00 8.00 A C C AROM 149 O ASP À 549 11.00 8.00 A C C AROM 149 C ASP À 549 11.00 A SP À 549 11.00 A C C AROM 140 C ASP À 549 11.00 A SP												
ARON 130 N TYR A 348											A	
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STORM 133 CG												
134 COL TYR 3-548 21.699 51.297 30.945 1.00 29.33 A C						21.785						
AROM 135 CRI TYR A 548 22.901 3.01.03 2.01.00 1.01.01 A C C C C C TYR A 548 22.901 3.01.03 2.01.00 9.18 A C C C C C TYR A 548 24.002 50.688 31.250 1.00 9.18 A C C AROM 137 CRE TYR A 548 24.003 50.688 31.250 1.00 9.18 A C C AROM 139 OF TYR A 548 24.003 50.688 31.250 1.00 9.18 A C C C C C C C C C C C C C C C C C C												
AROM 136 CEZ TTR A 548												С
ATOM 130 CT TYR A 548												
ATOM 140 C TYR A 548 25.070 50.503 32.102 1.00 9.53 A C NTOM 141 C TYR A 548 18.729 48.881 27.716 27.716 1.00 10.3 5.3 A C NTOM 141 C TYR A 548 18.729 48.881 27.716 27.716 1.00 10.3 5.3 A C NTOM 142 C A SEP A 549 20.701 48.222 28.871 71.00 9.86 A N C NTOM 143 C A SEP A 549 20.202 46.984 29.173 1.00 9.86 A N C NTOM 143 C A SEP A 549 20.202 46.984 29.173 1.00 9.96 A C NTOM 145 CG ASEP A 549 20.202 46.984 29.173 1.00 9.09 A C NTOM 145 CG ASEP A 549 20.202 45.981 19.3 28.041 1.00 8.79 A C NTOM 145 CG ASEP A 549 22.325 45.108 29.173 1.00 9.09 A C NTOM 145 CG ASEP A 549 22.325 45.108 29.173 1.00 9.09 A C NTOM 147 C NTOM 145 C ASEP A 549 22.325 45.108 29.29 1.00 7.04 A O NTOM 147 C NTOM 149 C NTOM 155 C SER A 550 18.394 47.308 23.714 1.00 10.47 A C C NTOM 155 C SER A 550 18.394 47.308 23.714 1.00 10.47 A C C NTOM 155 C SER A 550 18.394 47.308 23.714 1.00 10.47 A C C NTOM 156 N SER A 551 19.345 46.594 33.1321 1.00 8.94 A C NTOM 156 N SER A 551 19.345 46.594 33.1321 1.00 8.94 A C NTOM 156 N SER A 551 19.345 46.594 33.3221 1.00 8.94 A C NTOM 156 N SER A 551 19.345 46.594 33.3221 1.00 8.94 A C NTOM 156 N SER A 551 19.345 46.594 33.3221 1.00 8.14 A C C NTOM 156 N SER A 551 19.345 46.594 33.3221 1.00 8.94 A C NTOM 156 N SER A 551 19.345 46.594 39.31 1.00 8.94 A C NTOM 156 N SER A 551 19.345 46.594 39.31 1.00 8.94 A C NTOM 156 N SER A 551 19.345 46.594 39.31 1.00 8.94 A N N N N N N N N N N N N N N N N N N							50.688					
ATOM 140 C												
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ATOM 199 CB TRP A 557 32.930 45.333 31.043 1.00 1.02 A C ATOM 200 CG TRP A 557 32.006 45.304 31.663 1.00 1.02 A C ATOM 201 CD2 TRP A 557 30.984 44.542 30.992 1.00 0.31 A C ATOM 202 CE2 TRP A 557 30.371 43.719 31.964 1.00 0.33 A C ATOM 203 CE3 TRP A 557 30.524 44.480 29.668 1.00 0.00 A C ATOM 204 CD1 TRP A 557 31.970 44.916 32.973 1.00 0.00 A N				TRP	A 557							
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ATOM 201 CD2 TRP A 557 30.371 43.719 31.964 1.00 0.33 A C ATOM 203 CE2 TRP A 557 30.524 44.480 29.668 1.00 0.00 A C ATOM 204 CD1 TRP A 557 31.970 44.916 32.973 1.00 0.00 A C ATOM 204 CD1 TRP A 557 31.970 44.916 33.160 1.00 0.00 A N										0.31	A	
ATOM 203 CE3 TRP A 557 30.524 44.480 29.668 1.00 0.00 A C ATOM 204 CD1 TRP A 557 31.970 44.916 32.973 1.00 0.00 A C ATOM 204 CD1 TRP A 557 31.970 44.916 33.160 1.00 0.00 A N							43.719	31.964	1.00			
ATOM 204 CD1 TRP A 557 31.970 44.916 32.973 1.00 0.00 A N			CE3	TRP	A 557	30.524	44.480					
		204	CD1	TRP	A 557							
	ATOM	205	NEI	TRP	A 33/	50.554						

ATOM	206	CZ2	TRP	A	557	29.325	42.848	31.652	1.00	0.00	A	C
ATOM	207	CZ3				29.477	43.609	29.364	1.00	0.00	A A	C
ATOM	208	CH2			557 557	28.894 31.162	42.811 47.918	30.349 30.270	1.00 1.00	3.31	A	č
ATOM ATOM	209 210	С О	TRP			31.187	48.021	29.044	1.00	3.21	A	0
ATOM	211	N	ARG			30.031	47.925	30.968	1.00	3.04	A	N
ATOM	212	CA	ARG			28.750	48.016	30.281	1.00	2.87	A	C
MOTA	213	CB	ARG			27.622	47.457	31.161	1.00	2.86	A A	C C
ATOM	214	CG	ARG			26.312	47.262 46.423	30.425 31.220	1.00 1.00	4.01 7.57	A	č
ATOM ATOM	215 216	CD NE	ARG ARG			25.333 25.339	45.012	30.818	1.00		A	N
ATOM	217	CZ	ARG			26.196	44.090	31.261		14.76	A	С
ATOM	218		ARG			27.140	44.417	32.138	1.00		A	N
MOTA	219		ARG			26.106	42.838	30.828		16.31	A	N C
MOTA	220	C	ARG			28.469	49.455	29.870 29.115	1.00 1.00	2.65 2.16	A A	Ö
ATOM	221 222	N O	ARG			27.534 29.285	49.732 50.377	30.367	1.00	2.98	A	N
ATOM ATOM	223	CA			559	29.125	51.778	30.001	1.00	3.70	A	С
ATOM	224	CB			559	29.390	52.729	31.201	1.00	4.31	A	c
ATOM	225		ILE			30.837	52.652	31.647	1.00	4.63	A	C
MOTA	226		ILE			29.072	54.167	30.791 30.287	1.00 1.00	5.80 8.06	A A	C
ATOM	227		ILE		559 559	27.642 30.082	54.384 52.108	28.852	1.00	3.12	A	č
ATOM ATOM	228 229	C O			559	29.657	52.533	27.784	1.00	3.11	A	0
ATOM	230	N	MET			31.371	51.889	29.067	1.00	1.78	A	N
ATOM	231	CA	MET			32.351	52.162	28.043	1.00	0.00	A	C
ATOM	232	CB	MET			33.706	51.696	28.516	1.00	0.00	A A	C
MOTA	233	CG	MET			34.065 33.962	52.360 54.164	29.819 29.667	1.00	0.00 0.17	A	š
ATOM ATOM	234 235	SD	MET MET			35.595	54.651	30.118	1.00	0.49	A	C
ATOM	236	C			560	31.940	51.453	26.785	1.00	0.00	A	С
ATOM	237	ō	MET			32.155	51.951	25.680	1.00	1.25	A	0
ATOM	238	N	THR			31.320	50.293	26.962	1.00	0.00	A A	N C
ATOM	239	CA	THR			30.845 30.312	49.496 48.143	25.837 26.320	1.00 1.00	0.00	A	Ċ
ATOM	240 241	CB OG1	THR			31.399	47.388	26.856	1.00	0.00	A	ō
ATOM ATOM	242	CG2				29.665	47.366	25,173	1.00	0.00	A	С
ATOM	243	C	THR			29.732	50.244	25.118	1.00	1.27	A	C
ATOM	244	0	THR			29.903	50.726	23.994	1.00	0.00	A A	O N
ATOM	245	N	THR			28.584	50.332 51.039	25.780 25.214	1.00 1.00	3.02 3.36	A	Ĉ
ATOM ATOM	246 247	CA CB	THR		562	27.453 26.378	51.288	26.271	1.00	2.18	A	Ċ
ATOM	248		THR			26.121	50.077	26.983	1.00	3.18	A	0
ATOM	249	CG2	THR	A	562	25.103	51.745	25.615	1.00	3.49	A	C
MOTA	250	C	THR			27.989	52.378	24.709 23.614	1.00	3.72 4.20	A A	C 0
ATOM	251	O N	THR LEU			27.654 28.842	52.826 53.009	25.510	1.00	3.26	A	Ŋ
ATOM ATOM	252 253	CA	LEU			29.415	54.273	25.112	1.00	2.19	A	С
ATOM	254	CB	LEU			30.422	54.757	26.158	1.00	0.00	A	c
MOTA	255	CG	LEU			29.771	55.561	27.297	1.00	0.00	A A	C
ATOM	256		LEU			30.765 29.243	55.820 56.887	28.414 26.753	1.00	0.00	A	č
ATOM ATOM	257 258	CD2	LEU			30.064	54.065	23.759	1.00	2.77	A	C
ATOM	259	ŏ	LEU			29.491	54.418	22.734	1.00	1.04	A	0
ATOM	260	N	ASN			31.245	53.466	23.749	1.00	2.98	A	И
ATOM	261	CA	ASN			31.952 32.941	53.210 52.055	22.503 22.728	1.00 1.00	2.64 0.09	A A	C
ATOM	262 263	CB CG	ASN ASN			33.722	51.690	21.481	1.00	1.80	A	č
ATOM ATOM	264		ASN			33.412	50.706	20.808	1.00	2.98	A	0
ATOM	265		ASN			34.741	52.485	21.163	1.00	1.77	A	N
ATOM	266	C	ASN			30.972	52.880	21.369	1.00	2.80	A	C 0
ATOM	267	0	ASN			31.149	53.287 52.148	20.223 21.712	1.00 1.00	0.93 4.69	A A	N
ATOM	268 269	N CA	MET MET			29.921 28.930	51.738	20.730	1.00	6.85	A	c
ATOM ATOM	270	CB	MET			27.854	50.870	21.396	1.00	6.83	A	С
MOTA	271	CG	MET			27.098	49.953	20.441	1.00	8.00	A	C
ATOM	272	SD	MET			28.139	48.642	19.708	1.00	8.84	A	s C
ATOM	273	CE	MET			28.850	49.503 52.967	18.290 20.126	1.00 1.00	6.39 8.23	A A	č
ATOM	274	С О	MET MET			28.294 28.102	53.050	18.918	1.00	8.56	A	ō
ATOM ATOM	275 276	M∑∴ O	LEU			27.979	53.924	20.993	1.00		A	N
ATOM	277	CA	LEU			27.341	55.177	20.603	1.00	6.27	A	C
MOTA	278	CB	LEU			26.825	55.908	21.852	1.00	4.16	A	C
ATOM	279	CG	LEU			25.742	56.981 56.423	21.694 20.931	1.00 1.00	2.52 1.38	A A	c
ATOM	280		LEU			24.564 25.292	57.461	23.060	1.00	1.84	A	č
ATOM ATOM	281 282	CDZ	LEU			28.332	56.048	19.873	1.00	5.12	A	С
ATOM	283	ō	LEU			27.963	57.004	19.224	1.00	5.30	A	0
ATOM	284	N	GLY			29.603	55.707	19.981	1.00	3.12	A A	Ñ C
ATOM	285	CA	GLY			30.613	56.502 56.590	19.319 17.833	1.00 1.00	1.91 0.39	A	Ċ
ATOM	286	С	GLY	H	201	30.390	50.550		1.00		••	-

		CTV 7 567	29.825	57.549	17.348	1.00	0.00	A	0
ATOM	287 0	GLY A 567 GLY A 568	30.835		17.118	1.00	0.00	A	N
ATOM	288 N 289 CA	GLY A 568	30.709	55.539	15.679	1.00	0.00	A	C
MOTA	289 CA 290 C	GLY A 568	29.347	55.889	15.153	1.00	0.00	A	C O
MOTA	291 0	GLY A 568	29.200	56.181	13.975	1.00	0.00	A A	N
atom Atom	292 N	ARG A 569	28.335	55.851	16.002	1.00	0.00	A	Č
ATOM	293 CA	ARG A 569	26.996	56.185	15.535	1.00	1.55 2.82	A	č
ATOM	294 CB	ARG A 569	25.951	55.315	16.253	1.00	3.01	A	č
ATOM	295 CG	ARG A 569	24.496	55.482	15.800	1.00	4.65	A	č
MOTA	296 CD	ARG A 569	23.617	54.546	16.640 16.880	1.00	4.87	A	N
ATOM	297 NE	ARG A 569	22.254	55.027 54.770	17.992	1.00	3.85	A	С
MOTA	298 CZ		21.572 22.129	54.044	18.950	1.00	4.04	A	N
MOTA	299 NH		20.346	55.242	18.157	1.00	3.24	A	N
MOTA		2 ARG A 569 ARG A 569	26.792	57.671	15.807	1.00	1.55	A	С
MOTA	301 C 302 O	ARG A 569	26.120	58.349	15.053	1.00	1.41	A	0
ATOM	302 O 303 N	GLN A 570	27.389	58.165	16.889	1.00	1.31	A A	N C
ATOM ATOM	304 CA		27.315	59.570	17.233	1.00	2.14 4.40	A	č
MOTA	305 CB		27.816	59.821	18.659	1.00	5.78	A	č
MOTA	306 CG		26.770	59.652	19.758 21.124	1.00	7.26	A	C
ATOM	307 CD		27.221	60.189	21.273	1.00	7.79	A	0
MOTA		1 GLN A 570	27.564 27.213	61.368 59.322	22.125	1.00	6.81	A	N
ATOM	309 NE		28.219	60.283	16.234	1.00	3.00	A	C
MOTA	310 C	GLN A 570	28.100	61.482	16.024	1.00	5.91	A	0
ATOM	311 0	GLN A 570 VAL A 571	29.129	59.539	15.617	1.00	4.20	A	N
ATOM	312 N 313 CA		30.044	60.091	14.613	1.00	5.32	A	C C
ATOM	313 CF		31.309	59.196	14.450	1.00	5.65	A A	c
ATOM ATOM		1 VAL A 571	31.974	59.431	13.100	1.00	5.90 6.42	A	č
MOTA		2 VAL A 571	32.293	59.497	15.565	1.00 1.00	5.55	A	č
ATOM	317 C	VAL A 571	29.340	60.199	13.259 12.882	1.00	4.21	A	0
ATOM	318 O	VAL A 571	28.856	61.259 59.090	12.534	1.00	4.66	A	N
MOTA	319 N	ILE A 572	29.287 28.646	59.045	11.230	1.00	2.63	A	С
MOTA	320 C		28.245	57.576	10.864	1.00	1.46	A	C
ATOM	321 CI	32 ILE A 572	29.315	56.612	11.317	1.00	0.95	A	C
MOTA		G1 ILE A 572	26.943	57.177	11.535	1.00	2.22	A	C
MOTA		D1 ILE A 572	25.747	57.476	10.684	1.00	3.33	A A	C
ATOM ATOM	325 C	ILE A 572	27.407	59.942	11.195	1.00	1.14	A	Ö
ATOM	326 0		27.118	60.575	10.186	1.00	1.64 0.00	A	Ŋ
ATOM	327 N		26.686	59.997	12.309	1.00	0.00	A	Ċ
ATOM	328 C		25.476	60.799 60.553	12.402 13.706	1.00	0.00	A	С
MOTA	329 C		24.770 25.790	62.246	12.297	1.00	0.35	A	С
MOTA	330 C	ALA A 573	24.888	63.053	12.166	1.00	1.60	A	0
ATOM	331 0		27.075	62.562	12.376	1.00	2.50	A	N
MOTA	332 N 333 C		27.558	63.932	12.301	1.00	2.87	A	C
ATOM ATOM	334 C		28.622	64.172	13.365	1.00	2.23	A A	č
ATOM	335 C		28.123	64.213	10.920	1.00	2.36 2.71	A	ŏ
MOTA	336 O		27.706	65.154	10.264 10.479	1.00	1,01	A	N
ATOM	337 N		29.072	63.400 63.588	9.163	1.00	1.65	A	С
ATOM		A VAL A 575	29.664 30.230	62.284	8.626	1.00	1.37	A	С
MOTA		B VAL A 575	31.347	62.565	7.654	1.00	0.00	A	C
ATOM		G1 VAL A 575 G2 VAL A 575	30.668	61.416	9.768	1.00	0.00	A	, C
ATOM	341 C		28.633	64.088	8.152	1.00	3.13	A	C O
MOTA MOTA	343 C		28.944	64.923	7.310	1.00	3.49	A	N
MOTA	344 N		27.407	63.572	8.230	1.00	4.74	A A	Č
ATOM		A LYS A 576	26.349	63.981	7.310	1.00	5.56 6.56	A	č
ATOM		B LYS A 576	25.142		7.411 6.383	1.00	7.51	A	Ċ
ATOM		G LYS A 576	24.059					A	C
ATOM		D LYS A 576	22.681 22.487	- ·				A	С
MOTA		E LYS A 576	22.467				7.57	A	N
ATOM		NZ LYS A 576 LYS A 576	25.909					A	C
MOTA	351 C	LYS A 576	25.764					A	0
MOTA		TRP A 577	25.675					A	·С И
ATOM ATOM		A TRP'A 577	25.268	66.940				A A	c
ATOM		CB TRP A 577	25.164					A	č
ATOM	356 (CG TRP A 577	25.096					A.	č
ATOM	357 (CD2 TRP A 577	26.195					A	С
MOTA	358	CE2 TRP A 577	25.682					A	C
MOTA	359	CE3 TRP A 577	27.569 23.987					A	С
MOTA	360	CD1 TRP A 577	24.332				0.00	A	N
MOTA		NE1 TRP A 577 CZ2 TRP A 577	26.498		12.895	1.00		A	C
ATOM		CZ3 TRP A 577	28.378	3 69.867	12.629			A	C
atom Atom		CH2 TRP A 577	27.840	71.108				A A	c
ATOM		C TRP A 577	26.32					A	Ö
ATOM		O TRP A 577	26.027					A	N
MOTA		N ALA A 578	27.578	3 67.503	9.082				

	200	-	272 2	E70	28.727	68.313	8.734	1.00	2.23		A	С
ATOM	368	CA	ALA A		29.977	67.648	9.240	1.00	1.79		A	С
ATOM	369	CB	ALA A		28.840	68.594	7.239	1.00	3.61		A	Ċ
ATOM	370	C	ALA A		29.738	69.312	6.811	1.00	3.99		A	Ö
ATOM	371	0	ALA A			68.021	6.450	1.00	4.48		A	N
ATOM	372	N	LYS A		27.934	68.241	4.997	1.00	5.13		A	C
ATOM	373	CA	LYS A		27.903		4.237	1.00	4.34		A	Č
ATOM	374	CB	LYS A		27.792	66.911			5.17		A	č
MOTA	375	CG	LYS A		29.108	66.170	4.071	1.00	4.91		Ā	č
ATOM	376	CD	LYS A		28.916	64.825	3.407	1.00	5.38		Ā	č
MOTA	377	CE	LYS A		28.297	63.816	4.374	1.00			A	N
ATOM	378	NZ	LYS A		29.213	63.431	5.492	1.00	5.21			Č
ATOM	379	С	LYS A	579	26.666	69.087	4.726	1.00	5.05		A	
ATOM	380	. 0	LYS A	579	26.479	69.636	3.641	1.00	5.48		A	0
ATOM	381	N	ALA A	580	25.829	69.176	5.752	1.00	4.48		A	N
ATOM	382	CA	ALA A	580	24.603	69.934	5.704	1.00	4.02		A	C
ATOM	383	CB	ALA A	580	23.587	69.300	6.624	1.00	4.94		A	C
ATOM	384	С	ALA A	580	24.874	71.379	6.119	1.00	3.86		A	C
ATOM	385	0	ALA A	580	23.955	72.194	6.168	1.00	5.24		A	0
ATOM	386.	N	ILE A	581	26.131	71.685	6.438	1.00	2.99		A	N
ATOM	387	CA	ILE A	581	26.525	73.038	6.812	1.00	2.14		A	C
ATOM	388	CB	ILE A	581	27.938	73.089	7.424	1.00	0.00		A	С
ATOM	389	CG2	ILE A	581	28.110	74.365	8.194	1.00	0.00		A	C
ATOM	390	CG1	ILE A	581	28.184	71.899	8.339	1.00	0.00		A	C
ATOM	391		ILE A		27.228	71.800	9.482	1.00	0.00		A	С
ATOM	392	C	ILE A	581	26.617	73.745	5.465	1.00	3.53		A	С
ATOM	393	0	ILE A	581	27.157	73.172	4.509	1.00	3.17		A	0
ATOM	394	N	PRO A	582	26.070	74.975	5.348	1.00	4.06		A	N
ATOM	395	CD	PRO A		25.086	75.627	6.231	1.00	3.29		A	С
ATOM	396	CA	PRO P	582	26.149	75.682	4.066	1.00	3.07		A	С
ATOM	397	СВ	PRO A		25.485	77.015	4.382	1.00	2.41		Α	С
ATOM	398	CG	PRO A		24.388	76.599	5.293	1.00	1.91		A	С
ATOM	399	c	PRO A		27.589	75.838	3.562	1.00	3.62		A	С
MOTA	400	ŏ	PRO P		28.492	76.218	4.309	1.00	1.88		A	0
ATOM	401	N	GLY A		27.797	75.514	2.293	1.00	3.11		A	N
ATOM	402	CA	GLY A		29.122	75.643	1.718	1.00	4.87		A	С
ATOM	403	Č	GLY A		30.148	74.579	2.069	1.00	5.62		A	С
ATOM	404	ŏ	GLY A		31.265	74.616	1.550	1.00	5.44		A	0
ATOM	405	N	PHE A		29.798	73.634	2.938	1.00	6.57		A	N
ATOM	406	CA	PHE A		30.748	72.588	3.296	1.00	7.01		A	С
ATOM	407	CB	PHE A		30.152	71.629	4.331	1.00	5.98		A	С
	408	CG	PHE A		31.185	70.805	5.061	1.00	4.23		A	С
ATOM	409		PHE A		31.961	71.369	6.073	1.00	3.98		A	С
MOTA	410	CD2			31.408	69.475	4.718	1.00	4.05		A	C
MOTA	411	CEI	PHE A		32.948	70.616	6.731	1.00	3.51		A	С
ATOM	412	CE2			32.389	68.727	5.371	1.00	3.22		A	C
MOTA			PHE A		33.159	69.299	6.376	1.00	2.80		A	С
ATOM	413	CZ	PHE A		31.108	71.826	2.024	1.00	7.29		A	C
MOTA	414	C	PHE A		32.280	71.729	1.669	1.00	8.14		A	0
ATOM	415	0			30.105	71.292	1.332	1.00	7,32		A	N
ATOM	416	N	ARG A		30.368	70.557	0.103	1.00	7.84		A	С
MOTA	417	CA	ARG A		29.073	70.246	-0.654		10.41		A	C
ATOM	418	CB	ARG A		29.308	69.747	-2.093		11.98		A	Ċ
ATOM	419	CG	ARG A		28.025	69.290	-2.781		12.55	•	A	С
ATOM	420	CD	ARG A		28.190	69.164	-4.233		13.19		A	N
ATOM	421	NE	ARG A		27.188	68.961	-5.090		13.05		A	C
MOTA	422	CZ			25.938	68.854	-4.649		12.44		A	N
ATOM	423		ARG A			68.891	-6.391		11.86		A	N
ATOM	424	NH2			27.431 31.267	71.384	-0.792	1.00	7.33		A	С
ATOM	425	C	ARG A		32.071	70.853	-1.546	1.00	7.62		A	0
ATOM	426	0	ARG A		31.126	72.696	-0.702	1.00	6.78		A	N
ATOM	427	N	ASN A		31.923	73.586	-1.524	1.00	6.33		A	С
ATOM	428	CA	ASN A			75.044	-1.232	1.00	6.55		A	C
ATOM	429	CB	ASN A		31.558	75.374	-1.615	1.00	6.08		A	C
ATOM	430	CG	ASN A		30.123		-1.013	1.00	6.71		A	õ
ATOM	431		ASN A		29.176	74.808		1.00	6.45		A	N
atom	432		ASN A		29.961	76.292	-2.557	1.00	5.95		A	Ċ
ATOM	433	C	ASN A		33.401	73.343	-1.280	1.00	6.08		A	ŏ
ATOM	434	0	ASN A		34.225	73.507	-2.183 -0.061		4.83		A	N
ATOM	435	N	LEU A		33.730	72.932		1.00			A	Ċ
ATOM	436	CA	LEU A		35.114	72.664	0.291	1.00	4.49 1.95		A	č
ATOM	437	CB	LEO A		35.320	72.728	1.810	1.00			A	c
ATOM	438	CG	LEU 'A		35.096	74.062	2.526	1.00	0.00	•	A	c
ATOM	439		LEU A		35.711	74.010	3.912	1.00	0.00		A	c
ATOM	440		LEU A		35.711	75.183	1.720	1.00	0.00		A	c
ATOM	441	С	LEU A		35.594	71.314	-0.227	1.00	6.08		A	0
ATOM	442	0	LEU A		34.973	70.278	0.014	1.00	5.03		A	N
ATOM	443	N	HIS A		36.706	71.363	-0.954	1.00	7.97			C
ATOM	444	CA	HIS A		37.375	70.200	-1.528	1.00	7.66		A.	Č
ATOM	445	CB	HIS A		38.853	70.556	-1.721	1.00	8.59		A.	c
ATOM	446	CG	HIS A		39.549	69.792	-2.803		10.62		A.	c
ATOM	447		HIS A		39.101	68.861	-3.675		11.30		A A	
ATOM	448	ND1	HIS A	588	40.887	69.971	-3.086	1.00	11.32		A	N

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						CO 102	-4.086	1.00 1	1.35	A	С
ATOM	449		HIS A		41.234	69.183 68.498	-4.461	1.00 1		A	N
ATOM	450	-	HIS A		40.169 37.228	69.062	-0.514	1.00	6.17	A	С
ATOM	451		HIS A		37.226	69.313	0.696	1.00	7.07	A	0
ATOM	452		HIS A		37.137	67.822	-0.987	1.00	3.08	A	N
ATOM	453	-	LEU A		36.980	66.710	-0.065	1.00	1.54	A	С
ATOM	454		LEU A		36.664	65.423	-0.824	1.00	1.60	A	С
MOTA	455	-	LEU A LEU A		35.194	65.169	-1.189	1.00	1.11	A	C
MOTA	456	CG	LEU A		34.796	65.925	-2.457	1.00	0.21	A	C
ATOM	457		LEU A		35.005	63.680	-1.404	1.00	0.60	A	C
MOTA	458		LEU A		38.206	66.516	0.829	1.00	1.42	A	C
ATOM	459	C	LEU A		38.089	66.040	1.967	1.00	1.35	A	0
ATOM	460	0	ASP A		39.384	66.876	0.328	1.00	1.96	A	N
ATOM	461	N	ASP A		40.576	66.741	1.145	1.00	3.02	A	C
MOTA	462 463	CA CB	ASP A		41.808	67.220	0.403	1.00	2.72	A	C
ATOM		CG	ASP A		42.280	66.228	-0.619	1.00	4.98	A	C
MOTA MOTA	464 465		ASP A		41.535	65.958	-1.588	1.00	5.51	A	0
	466		ASP A		43.401	65.704	-0.446	1.00	7.12	A	Ö
MOTA	467	C	ASP A		40.331	67.622	2.338	1.00	3.28	A	C
ATOM ATOM	468	ŏ	ASP A		40.728	67.297	3.451	1.00	1.93	A	0
ATOM	469	N	ASP A		39.646	68.735	2.087	1.00	4.09	A	N C
ATOM	470	CA	ASP A		39.320	69.702	3.122	1.00	3.32	A	c
ATOM	471	СВ	ASP A		38.713	70.968	2.515	1.00	2.03	A	c
ATOM	472	CG	ASP A		39.606	71.602	1.456	1.00	2.28	A	Ö
ATOM	473		ASP A		40.845	71.444	1.533	1.00	1.79	A	ŏ
ATOM	474		ASP A		39.067	72.275	0.547	1.00	2.67	A	č
ATOM	475	c	ASP A		38.339	69.085	4.081	1.00	3.14	A A	ŏ
ATOM	476	ō	ASP A		38.677	68.816	5.231	1.00	3.40	A	Ŋ
ATOM	477	N	GLN A		37.126	68.858	3.589	1.00	2.76	A	Ĉ
ATOM	478	CA	GLN A		36.045	68.257	4.372	1.00	3.71 4.09	A	č
ATOM	479	CB	GLN A	592	34.986	67.668	3.435	1.00	2.57	A	č
ATOM	480	CG	GLN A		34.359	68.665	2.464	1.00	1.45	A	Č
ATOM	481	CD	GLN A		33.220	68.065	1.659	1.00 1.00	0.57	A	ō
ATOM	482		GLN A		32.171	67.712	2.202	1.00	1.06	A	N
ATOM	483	NE2	GLN A	592	33.425	67.947	0.355	1.00	4.37	A	C
ATOM	484	С	GLN A		36.547	67.154	5.306 6.525	1.00	4.05	A	ō
ATOM	485	0	GLN A		36.344	67.202		1.00	4.47	A	N
ATOM	486	N	MET A		37.197	66.152	4.723	1.00	3.67	A	С
ATOM	487	CA	MET A		37.727	65.062	5.514 4.614	1.00	3.57	A	С
MOTA	488	CB	MET A		38.413	64.042	3.693	1.00	4.07	A	С
MOTA	489	CG	MET I		37.455	63.290	4.528	1.00	4.62	A	s
ATOM	490	SD	MET A		36.208	62.250	3.146	1.00	2.82	A	С
ATOM	491	CE	MET F		35.748	61.193 65.605	6.539	1.00	2.45	A	С
ATOM	492	С		4 593	38.704 38.622	65.265	7.706	1.00	2.80	A	0
ATOM	493	0		A 593	39.620	66.462	6.108	1.00	1.88	A	N
ATOM	494	N		A 594	40.599	67.043	7.026	1.00	2.57	A	С
ATOM	495	CA		A 594	41.516	68.101	6.314	1.00	5.68	A	С
ATOM	496	CB		A 594 A 594	42.405	67.439	5.402	1.00	6.99	A	0
ATOM	497	OG1	THR A		42.347	68.887	7.338	1.00	6.06	A	C
ATOM	498			A 594	39,910	67.725	8.202	1.00	0.49	A	C
ATOM	499	C O		A 594	40.265	67.509	9.361	1.00	0.00	A	0
ATOM	500	И		A 595	38.915	68.544	7.899	1.00	0.00	A	N
MOTA	501	CA		A 595	38.219	69.265	8.941	1.00	0.00	A	C
ATOM	502 503	CB		A 595	37.563	70.499	8.364	1.00	0.00	A	C
MOTA	504	CG		A 595	38.591	71.557	8.015	1.00	0.00	A	C
MOTA	505	CD1	LEU	A 595	37.952	72.555	7.083	1.00	0.00	A	C
ATOM ATOM	506	CD2	LEU :	A 595	39.107	72.210	9.282	1.00	0.00	A	C
ATOM	507	C	LEU	A 595	37.203	68.453	9.683	1.00	0.00	A A	ŏ
ATOM	508	0		A 595	36.651	68.917	10.677	1.00	0.00	A	Ŋ
ATOM	509	N	LEU	A 596	36.938	67.245	9.210	1.00	0.00	A	Ċ
ATOM	510	CA	LEU	A 596	35.983	66.417	9.913	1.00	0.00	A	Č
ATOM	511	CB	LEU .	A 596	35.085	65.662	8.939	1.00	0.00	A	č
ATOM	512	CG	LEU .	A 596	33.615	66.017	9.167	1.00	0.00	A	Č
ATOM	513	CD	LEU .	A 596	32.773		8.087		0.00	A	Č
ATOM	514	CD2	LEU .		33.172		10.513		0.00	A	Ċ
ATOM	515	С	LEU	A 596	36.690		10.845		0.00	A	ō
ATOM	516	0		A 596	36.050		11.706		0.00	A	N
ATOM	517	N	GLN	A 597	38.009		10.673		0.00	A	Ċ
ATOM	518	CA	GLN	A 597	38.846		11.510		0.00		č
ATOM	519	CB		A 597	40.095				0.00	A	č
ATOM	520	CG		A 597	39.904	63.337			0.00	A	Č
MOTA	521	CD		A 597	41.230				0.00	A	ō
ATOM	522		1 GLN		41.330	62.779			0.00	A	N
ATOM	523		2 GLN	A 597	42.242					A	C
ATOM	524		GLN	A 597	39.336					A	0
ATOM	525			A 597	39.773					A	N
MOTA	526			A 598	39.278 39.717					A	Ç
ATOM	527			A 598	40.278					A	С
ATOM	528		TYR	A 598	41.656					A	С
ATOM	529	CG	TYR	A 598	41.030						

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ATOM	530 CD1 TYR A 598					0.00 0.69	A A	C C
MOTA	531 CE1 TYR A 598		••••			0.00	A	С
ATOM	532 CD2 TYR A 598		69.077 68.961			0.00	A	С
ATOM	533 CE2 TYR A 598 534 CZ TYR A 598		68.439	11.420		0.91	A	C 0
ATOM	534 CZ TYR A 598 535 OH TYR A 598	45.458	68.305			2.35	A A	c
ATOM ATOM	536 C TYR A 598	38.606	67.896			1.97 2.93	A	ŏ
ATOM	537 O TYR A 598		68.101 68.011			2.26	A	N
ATOM	538 N SER A 599	37.393 36.270	68.400		1.00	4.13	A	C
ATOM	539 CA SER A 599 540 CB SER A 599	35.386	69.379			6.03	A A	C O
MOTA ATOM	540 CB SER A 599 541 OG SER A 599	35.217	68.979			5.27 5.52	A	č
MOTA	542 C SER A 599	35.407	67.274	15.478 16.013		8.08	A	0
MOTA	543 O SER A 599	34.331 35.845	67.537 66.024	15.400	1.00	6.06	A	N
MOTA	544 N TRP A 600 545 CA TRP A 600	34.967	65.006	15.936	1.00	6.37	A	C C
MOTA	545 CA TRP A 600 546 CB TRP A 600	35.376	63.577	15.487	1.00	9.43 9.07	A A	C
ATOM ATOM	547 CG TRP A 600	36.557	62.934	16.122 17.086	1.00 1.00 1		A	č
ATOM	548 CD2 TRP A 600	36.535	61.867 61.559	17.401	1.00 1		A	С
MOTA	549 CE2 TRP A 600 550 CE3 TRP A 600	37.880 35.510	61.145	17.715	1.00	9.96	A	C
MOTA	550 CE3 TRP A 600 551 CD1 TRP A 600	37.872	63.217	15.894	1.00	9.72	A A	С N
ATOM ATOM	552 NEI TRP A 600	38.674	62.394	16.660	1.00 1	8.99	A	Ĉ
MOTA	553 CZ2 TRP A 600	38.226	60.557 60.145	18.318 18.629	1.00	9.07	A	С
MOTA	554 CZ3 TRP A 600	35.858 37.207	59.867	18.920	1.00	9.32	A	C
MOTA	555 CH2 TRP A 600 556 C TRP A 600	34.796	65.139	17.448	1.00	5.65	A A	C O
MOTA MOTA	556 C TRP A 600 557 O TRP A 600	33.757	65.610	17.901	1.00	6.26 2.98	A	N
ATOM	558 N MET A 601	35.796	64.776	18.234 19.673	1.00	0.39	A	С
ATOM	559 CA MET A 601	35.64 4 36.966	64.893 64.542	20.372	1.00	0.50	A	C
ATOM	560 CB MET A 601 561 CG MET A 601	36.920	64.495	21.900	1.00	0.00	A	C S
MOTA MOTA	561 CG MET A 601 562 SD MET A 601	35.592	63.524	22.601	1.00	0.00	A A	č
ATOM	563 CE MET A 601	36.310	62.772 66.301	24.011 20.041	1.00 1.00	0.00	A	С
ATOM	564 C MET A 601	35.165 34.652	66.516	21.123	1.00	0.00	A	0
MOTA	565 O MET A 601 566 N PHE A 602	35.307	67.267	19.144	1.00	0.00	A A	N C
MOTA MOTA	566 N PHE A 602 567 CA PHE A 602	34.847	68.625	19.457	1.00 1.00	0.37 1.81	Ä	č
ATOM	568 CB PHE A 602	35.403	69.654 69.930	18.460 18.633	1.00	1.20	A	С
ATOM	569 CG PHE A 602	36.871 37.704	70.039	17.530	1.00	0.00	A	C
ATOM	570 CD1 PHE A 602 571 CD2 PHE A 602	37.426	70.032	19.902	1.00	0.57	A A	C
ATOM ATOM	572 CE1 PHE A 602	39.066	70.234	17.689	1.00	0.23 1.00	A	č
ATOM	573 CE2 PHE A 602	38.791	70.229 70.327	20.069 18.962	1.00	0.83	A	С
ATOM	574 CZ PHE A 602 575 C PHE A 602	39.612 33.330	68.658	19.437	1.00	1.06	A	C
MOTA	575 C PHE A 602 576 O PHE A 602	32.707	69.036	20.427	1.00	1.08	A A	O N
ATOM ATOM	577 N LEU A 603	32.739	68.277	18.307 18.207	1.00	2.03 3.01	A	Ĉ
ATOM	578 CA LEU A 603	31.288 30.865	68.227 67.720	16.832	1.00	3.77	A	С
MOTA	579 CB LEU A 603 580 CG LEU A 603	31.033	68.729	15.701	1.00	5.04	A	C C
MOTA	580 CG LEU A 603 581 CD1 LEU A 603	30.857	68.044	14.362	1.00	4.29 5.20	A A	C
ATOM ATOM	582 CD2 LEU A 603	30.026	69.841	15.869 19.299	1.00	2.59	A	c
ATOM	583 C LEU A 603	30.816 30.085	67.258 67.643	20.211	1.00	4.55	A	0
ATOM	584 O LEU A 603 585 N MET A 604	31.256	66.006	19.210	1.00	0.05	A	C N
ATOM ATOM	585 N MET A 604 586 CA MET A 604	30.914	64.992	20.193	1,00	0.00	A A	C
ATOM	587 CB MET A 604	31.958	63.884 63.176		1.00 1.00	0.00	A	С
ATOM	588 CG MET A 604	32.042 30.526	62.285		1.00	0.00	A	S
ATOM	589 SD MET A 604 590 CE MET A 604	31.103	60.590	18.449	1.00	0.00	A A	C C
ATOM ATOM	590 CE MET A 604 591 C MET A 604	30.873	65.619		1.00	0.00	A	ŏ
ATOM	592 O MET A 604	29.800			1.00	0.00	A	Ñ
ATOM	593 N ALA A 605	32.052 32.198			1.00		A	C
ATOM	594 CA ALA A 605 595 CB ALA A 605	33.655		23.717	1.00		A	C
MOTA	595 CB ALA A 605 596 C ALA A 605	31.323	67.705	23.704	1.00		A A	ŏ
MOTA .	597 O ALA A 605	. 30.943			1.00		A	N
ATOM	598 N PHE A 606	31.005 30.172			1.00		. A	С
ATOM	599 CA PHE A 606 600 CB PHE A 606	30.172			1.00	0.00		C
ATOM	601 CG PHE A 606	29.873	71.962	21.908			A A	C
ATOM ATOM	602 CD1 PHE A 606	30.380					A	č
ATOM	603 CD2 PHE A 606	28.907 29.937				0.00	A	С
ATOM	604 CE1 PHE A 606	28.462		21.369	1.00	0.00	A	C
ATOM	605 CE2 PHE A 606 606 CZ PHE A 606	28.973	74.504	1 22.436	1.00		A A	c c
MOTA MOTA	607 C PHE A 606	28.729	69.17				A	ŏ
ATOM	608 O PHE A 606	28.099				0.00	A	N
MOTA	609 N ALA A 607 610 CA ALA A 607	28.226 26.86					A	С
MOTA	610 CA ALA A 60/							

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									- 00	0 14	A		С
» mow	611	CB	ALA	A	607	26.797	66.848	20.888	1.00	0.14			
ATOM			ALA			26.392	67.671	23.189	1.00	1.53	A		С
MOTA	612	C				25.392	68.178	23.695	1.00	2.78	A		0
ATOM	613	0	ALA					23.804	1,00	1.69	A		N
MOTA	614	N	LEU	Α	608	27.126	66.763			2.07	A		С
ATOM	615	CA	LEU	Α	608	26.786	66.322	25.139	1.00				
		СВ	LEU			27.871	65.386	25.663	1.00	2.30	A		C
MOTA	616					27.537	64.643	26.947	1.00	1.86	P		С
MOTA	617	CG	LEU				63.743	26.694	1.00	2.95	A		C
ATOM	618	CD1	LEU	Α	608	26.366			1.00	2.57	2		С
ATOM	619	CD2	LEU	Α	608	28.720	63.839	27.395			P		Č
	620	C	LEU			26.652	67.530	26.064	1.00	2.18			
ATOM			LEU			25.592	67.756	26.644	1.00	1.10	7		0
MOTA	621	0					68.301	26.185	1.00	2.31	7		N
ATOM	622	N	GLY			27.734			1.00	0.69	F		С
ATOM	623	CA	GLY	Α	609	27.745	69.475	27.041			7		Č
	624	С	GLY	Α	609	26.392	70.154	27.105	1.00	0.00			
ATOM			GLY			25.890	70.475	28.183	1.00	0.06	Į		0
ATOM	625	0				25.798	70.361	25.939	1.00	0.00	7		N
ATOM	626	N	TRP					25.845	1.00	0.00	I		С
MOTA	627	CA	TRP	A	610	24.495	70.993			0.79	7		С
ATOM	628	CB	TRP	A	610	24.262	71.459	24.404	1.00				č
	629	ĊĠ	TRP			22.866	71.864	24.090	1.00	1.59	Į		
ATOM						22.338	73.191	24.100	1.00	0.93	7	1	С
ATOM	630	CD2					73.095	23.814	1.00	1.43	2	١.	С
ATOM	631	CE2				20.958				1.29	1		С
ATOM	632	CE3	TRP	Α	610	22.893		24.331	1.00		Î		č
	633		TRP			21.821	71.038	23.799	1.00	2.70			
ATOM			TRP			20.668	71.770	23.632	1.00	2.17	1	7	N
MOTA	634							23.757	1.00	1.17	2	1	С
ATOM	635	CZ2	TRP			20.125			1.00	1.18	1	١.	С
ATOM	636	CZ3	TRP	Α	610	22.062	75.564	24.274				Ā	C
ATOM	637		TRP	А	610	20.693	75.432	23.989	1.00	0.51			
					610	23.404	70.025	26.299	1.00	0.00	1	7	С
ATOM	638	C				22.701	70.306	27.270	1.00	0.00	7	A.	0
ATOM	639	0			610			25.614	1.00	0.00	1	Į.	N
ATOM	640	N	ARG	Α	611	23.277				0.00		1	С
MOTA	641	CA	ARG	Α	611	22.265	67.887	25.968	1.00				č
	642	CB			611	22.646	66.493	25.467	1.00	0.00		A	
MOTA						22.941		23.989	1.00	0.00		4	С
MOTA	643	CG			611			23.646	1.00	0.00		A	С
ATOM	644	CD			611	23.344			1.00	0.00		A	N
ATOM	645	NE	ARG	Α	611	24.021		22.360				Ā	c
	646	CZ	ARG	A	611	23,522	65.330	21.220	1.00	0.00			
ATOM			ARG			22.338	65.917	21.204	1.00	0.00		A.	N
MOTA	647					24.208		20.090	1.00	0.00		A	N
ATOM	648	NH2	ARG					27.475	1.00	0.00		A	С
ATOM	649	С	ARG	Α	611	22.093				0.00		A	0
MOTA	650	0	ARG	Α	611	20.992	67.966	27.980	1.00				
		N			612	23.188	67.560	28.190	1.00	0.67		A	N
ATOM	651					23.138		29.648	1.00	1.96		A	С
MOTA	652	CA			612			30.177	1.00	2.19		A	С
ATOM	653	CB	SER	A	612	24.209				4.26		A	0
ATOM	654	OG	SER	. A	612	25.486		30.200	1.00				č
	655	c			612	23.317	68.799	30.313	1.00	2.61		A	
ATOM					612	24.264		31.058	1.00	1.54		A	0
ATOM	656	0				22.384		30.026	1.00	3.78		A	N
ATOM	657	N			613			30.569	1.00	4.65		A	С
ATOM	658	CA	TYR	A	613	22.359				5.98		Α	С
ATOM	659	CB	TYR	A	613	23.526	71.869	30.020	1.00				č
	660	CG			613	23.183	L 73.317	29.797	1.00	5.30		A	
ATOM					613	23.098		30.858	1.00	6.21		A	С
atom	661	CD:				22.688		30.658	1.00	5.08		A	С
ATOM	662	CE:			613				1.00	6.15		Α	С
ATOM	663	CD2	2 TYR	A	613	22.852		28.528				A	C
ATOM	664	CE	איד ל	A	613	22.44	L 75.076	28.315	1.00	6.69			
					613	22.35	3 75.948	29.381	1.00	5.38		A	C
ATOM	665	CZ				21.92		29.150	1.00	4.66		A	0
MOTA	666	OH			613				1.00	5.06		A	С
ATOM	667	С			613	21.03				5.38		A	0
ATOM	668	0	TYR	P	613	20.66			1.00			A	N
ATOM	669		ARG	, 7	614	20.34	3 70.812			5.49			
					614	19.04		28.772	1.00	5.93		A	С
ATOM	670									5.63		Α	С
MOTA	671				614	19.09				5.65		A	С
MOTA	672	CG			614	17.79			_	5.28		A	č
MOTA	673				614	17.94							
			A D C		614	16.65	6 72.264	24.427	1.00	4.84		A	N
MOTA	674					16.49			1.00	3.40		Α	С
ATOM	675	CZ	ARG	, ,	614							Α	N
ATOM	676	NH	1 ARG	; ?	614	17.54			1 00			A	N
ATOM	677	NH	2 ARG	; ;	614	15.28	9 72.784						
			אסמ	: 2	614	18.06	8 70.081	29.205			•	A	C
MOTA	678					16.97			1.00	7.53		A	0
ATOM	679				614							A	N
ATOM	680	N			615	18.48				⊕.4.72		A	C
ATOM	681		GLN	1 2	4 615	17.63							
	682		GT.N	J	615	17.65	9 66.636	28.281	1.00	6.29		A	C
MOTA			Ct		615	16.27			1.00	10.07		A	С
MOTA	683			4	4 615				1.00	11.83		A	С
ATOM	684	CD	GLi	1 1	4 615	15.32			1 00	11.71		A	0
ATOM	685	OE	1 GL	1 1	A 615	14.09				12 20		Ä	Ŋ
	686		2 CT.	3	A 615	15.88	8 65.005			13.29			
ATOM			~ ~~		A 615	17.93			1.00			A	C
ATOM	687											A	0
MOTA	688		GLI	N A	A 615	17.87						Α	N
ATOM	689	N	SE	R i	A 616	18.24						A	Ĉ
MOTA	690		SEI	R Z	A 616	18.52							
			CET	R	A 616	19.48		7 32.991	1.00	5.88		A	С
MOTA	691	. CB	354										

4.0

ATOM	692	OG	SER A 616	18.798	64.806	32.648	1.00	7.78	A A	O C
ATOM	693	C	SER A 616	19.077	68.217 67.879	34.077 35.230	1.00	6.99 6.38	A	ŏ
ATOM	694	0	SER A 616	19.346 19.236	69.457	33.619	1.00	6.91	A	N
ATOM	695 696	n Ca	SER A 617 SER A 617	19.741	70.559	34.438	1.00	8.11	A	C
ATOM ATOM	697	СВ	SER A 617	19.357	70.391	35.910	1.00	9.65	A A	C O
ATOM	698	OG	SER A 617	19.977	71.382 70.721	36.725 34.354	1.00	8.99	A	č
ATOM	699	C	SER A 617 SER A 617	21.235 21.802	71.581	35.021	1.00	8.84	A	0
ATOM ATOM	700 701	o N	ALA A 618	21.872	69.887	33.545	1.00		A	N
ATOM	702	CA	ALA A 618	23.319	69.937	33.359	1.00		A A	C C
ATOM	703	CB	ALA A 618	23.811 24.166	71.398 69.076	33.401 34.305	1.00	9.70	A	č
ATOM	704	C	ALA A 618 ALA A 618	24.1885	68.190	33.842	1.00	10.08	A	0
MOTA MOTA	705 706	N N	ASN A 619	24.075	69.328	35.614	1.00	7.87	A	N C
ATOM	707	CA	ASN A 619	24.875	68.607	36.619	1.00	6.76 6.42	A A	č
ATOM	708	CB	ASN A 619	24.307 25.406	68.845 69.118	38.034 39.071	1.00	7.28	A	С
MOTA	709	CG	ASN A 619 ASN A 619	26.301	69.936	38.843	1.00	7.43	A	0
ATOM ATOM	710 711		ASN A 619	25.333	68.441	40.211	1.00	6.62	A A	N C
ATOM	712	С	ASN A 619	25.059	67.106	36.366 36.897	1.00	5.90 3.16	A	ŏ
ATOM	713	0	ASN A 619	25.996 24.172	66.503 66.526	35.550	1.00	6.25	A	N
ATOM	714 715	N CA	LEU A 620 LEU A 620	24.225	65.106	35.182	1.00	4.94	A	C
ATOM ATOM	716	CB	LEU A 620	22.834	64.487	35.210	1.00	2.22 3.21	A A	C
ATOM	717	CG	LEU A 620	21.854	64.977	36.278 36.217	1.00	2.57	A	č
MOTA	718		LEU A 620	20.589 22.506	64.099 64.947	37.668	1.00	2.39	A	С
ATOM ATOM	719 720	CD2	LEU A 620 LEU A 620	24.793	64.971	33.770	1.00	4.69	A	C
ATOM	721	ŏ	LEU A 620	24.665	65.887	32.953	1.00	4.22 3.78	A A	O N
ATOM	722	N	LEU A 621	25.408	63.827 63.599	33.480 32.169	1.00 1.00	2.60	A	Ċ
ATOM	723	CA	LEU A 621 LEU A 621	26.008 27.413	63.004	32.338	1.00	2.51	A	C
MOTA MOTA	724 725	CB CG.	LEU A 621	28.602	63.973	32.298	1.00	1.78	A.	C
ATOM	726	CD1	LEU A 621	29.910	63.237	32.527	1.00	1.53 2.41	A A	č
ATOM	727		LEU A 621		64.650 62.714	30.943 31.241	1.00	1.34	A	С
ATOM	728 729	C O	LEU A 621 LEU A 621		61.586	30.975	1.00	0.85	A	0
ATOM ATOM	730	N	CYS A 622	24.076	63.256	30.729	1.00	0.00 0.00	A A	N C
ATOM	731	CA	CYS A 622		62.520 63.206	29.850 29.825	1.00	0.00	A	č
ATOM	732	CB	CYS A 622		64.684	28.818	1.00	0.00	A	S
ATOM ATOM	733 734	SG C	CYS A 622		62.347	28.409	1.00	0.00	A A	C
ATOM	735	ō	CYS A 622	23.670	63.292	27.626	1.00	0.00	A	N
ATOM	736	N	PHE A 623		61.122 60.806	28.055 26.718	1.00	0.00	A	С
MOTA	737 738	CA CB	PHE A 623		59.584	26.801	1.00	0.00	A	C
ATOM ATOM	739	CG	PHE A 623	26.602	59.787	27.689	1.00	0.00	A A	C C
ATOM	740	CD1	PHE A 623		60.212 59.640	27.172 29.060	1.00 1.00	0.00	A	č
ATOM	741		PHE A 623		60.493	28.020	1.00	0.00	A	C
ATOM ATOM	742 743		PHE A 623		59.924	29.914	.1.00	0.00	A A	C
ATOM	744	CZ	PHE A 623	28.744	60.350	29.394 25.772	1.00	0.00	Ā	č
ATOM	745	C	PHE A 623		60.547 60.476	24.561	1.00	0.00	A	0
ATOM	746 747	N O	ALA A 624		60.415	26.349	1.00		A	N
MOTA MOTA	748	CA	ALA A 624	20.963	60.140	25.595 24.737	1.00		A A	C
ATOM	749	CB	ALA A 624		58.897 59.920	26.578	1.00		A	С
ATOM	750 751	С 0	ALA A 624		59.846	27.777	1.00	3.53	A	0
ATOM ATOM	752	N	PRO A 625	18.585	59.813	26.085	1.00		A A	N C
ATOM	753	CD	PRO A 62		60.027 59.601	24.715 26.993	1.00		A	č
ATOM	754	CA	PRO A 625		59.651	26.055	1.00		A	C
ATOM ATOM	755 756	CB CG	PRO A 62		60.531	24.961	1.00		A	C
ATOM	757	c	PRO A 625	5 17.557	58.262	27.733	1.00		A A	ŏ
ATOM	758	0	PRO A 62		58.131 57.277	28.877 27.068	1.00		A	N
ATOM	759	N	ASP A 62		55.940	27.626	1.00	3.24	A	C
ATOM ATOM	760 761,	CA CB	ASP A 62	6 18.345	54.893	26.511	1.00		A A	C
ATOM	762	CG	ASP A 62	6 19.428	55.169	25.496 24.307	1.00		A	Ö
MOTA	763	OD:	ASP A 62	6 19.095 6 20.610	55.355 55.202	25.888	1.00	0.00	A	0
ATOM	764 765	C OD:	2 ASP A 62 ASP A 62	6 19.533	55.801	28.469	1.00	2.59	A	C
ATOM ATOM	766		ASP A 62	6 19.833	54.715	28.939	1.00		A A	o N
ATOM	767	N	LEU A 62	7 20.241			1.00		A	Č
ATOM	768	CA	LEU A 62 LEU A 62	7 21.462 7 22.579				4.47	A	C
MOTA MOTA	769 770	CB CG	LEU A 62	7 23.979	56.267	29.146	1.00		A	C
ATOM	771	CD	1 LEU A 62	7 23.914	55.922				A A	C
MOTA	772	CD	2 LEU A 62	7 24.777	55.227	28.348	1.00	. 5.50		

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T IT CM	773	c 1	LEU A	627	21.849	58.173	30.090	1.00	1.52	A A	C O
ATOM ATOM	774	0 1	LEU A	627	21.968	59.179	29.406	1.00	0.77 1.10	A	N
ATOM	775		ILE A		22.044	58.189 59.430	31.396 32.055	1.00	0.29	A	С
MOTA	776		ILE A		22.404 21.163	60.202	32.540	1.00	0.57	A	C
ATOM	777 778		ILE A		21.445	61.678	32.528	1.00	0.00	A	C
ATOM ATOM	779			628	19.952	59.884	31.676	1.00	0.62 1.08	A A	C
ATOM	780	CD1	ILE A		19.284	58.556	32.018 33.279	1.00 1.00	0.46	A	Č
ATOM	781	-	ILE A		23.253 22.722	59.141 59.017	34.380	1.00	1.45	A	0
MOTA	782		ILE A		24.562	59.026	33.118	1.00	0.11	A	N
ATOM ATOM	783 784		ILE A		25.362	58.747	34.289	1.00	2.20	. A.	C
MOTA	785		ILE A		26.852	58.775	33.964 35.231	1.00	3.14 1.51	A	č
ATOM	786		ILE A		27.682	58.511 57.703	32.916	1.00	2.96	A	C
ATOM	787		ILE A ILE A		27.146 28.611	57.493	32.664	1.00	3.69	A	C
ATOM	788 789		ILE A		25.032	59.762	35.374	1.00	3.38	A	C O
ATOM ATOM	790		ILE A		25.378	60.930	35.264	1.00	4.88 4.33	A A	N
ATOM	791	N	asn a		24.337	59.295	36.408 37.551	1.00 1.00	4.29	A	C
ATOM	792		ASN A		23.908 23.217	60.108 59.200	38.574	1.00	3.81	A	С
ATOM	793		ASN A ASN A		22.363	58.119	37.915	1.00	4.39	A	C
MOTA MOTA	794 _. 795		ASN A		22.838	57.371	37.052	1.00	3.09	A A	O N
ATOM	796		ASN A	630	21.098	58.028	38.325 38.212	1.00	4.13 4.98	A	Ĉ
MOTA	797	С	ASN A		25.080 25.912	60.827 61.415	37.539	1.00	4.16	A	0
ATOM	798	0	ASN A		25.137	60.798	39.537	1.00	6.52	A	N
ATOM ATOM	799 800	n Ca	GLU A		26.249	61.431	40.236	1.00	8.03	A A	C
ATOM	801	CB	GLU A	631	25.801	62.635	41.079	1.00 1.00	9.15 10.50	A	č
ATOM	802	CG	GLU A		27.006 26.635	63.424 64.510	41.649 42.660		11.16	A	С
ATOM	803	CD	GLU A		26.047	64.183	43.719		11.47	A	0
ATOM ATOM	804 805		GLU A		26.950	65.692	42.388		10.90	A A	O C
ATOM	806	C	GLU A		26.979	60.446	41.135 41.108	1.00	8.01 8.95	A	ŏ
MOTA	807	0	GLU A		28.205 26.239	60.376 59.693	41.100	1.00	7.43	A	N
ATOM	808	N	GLN A		26.882	58.724	42.816	1.00	7.50	A	C
ATOM ATOM	809 810	CA CB	GLN A		25.907	58.234	43.899	1.00	7.13	A A	c
MOTA	811	CG	GLN A		25.603	59.299	44.951	1.00	5.53 4.58	Ā	č
ATOM	812	CD	GLN A		25.111	58.729 58.945	46.271 47.324	1.00	2.81	A	0
MOTA	813		GLN F		25.721 23.998	58.001	46.223	1.00	3.30	A	N
ATOM ATOM	814 815	NE2 C	GLN F		27.427	57.554	41.987	1.00	8.43	A A	C
ATOM	816	ō	GLN F	A 632	27.807	56.508	42.521 40.676	1.00	8.94 8.83	A	N
ATOM	817	N	ARG F		27.476 27.974	57.764 56.780	39.727	1.00	9.35	A	С
ATOM	818 819	CA CB	ARG A		26.881	56.470	38.703	1.00	9.45	A	C
ATOM ATOM	820	CG	ARG A		27.223	55.430	37.632		10.20 11.55	A A	C
ATOM	821	CD	ARG A		27.180	54.000	38.178 39.100		12.60	A	N
ATOM	822	NE	ARG A		26.059 24.771	53.756 53.709	38.762		13.07	A	С
MOTA	823 824	CZ NH1	ARG A		24.388	53.883	37.503		14.00	A	N
MOTA MOTA	825	NH2	ARG A	A 633	23.861	53.494	39.699		12.82 9.65	A A	N C
ATOM	826	С	ARG A	A 633	29:198	57.369	39.019 38.148	1.00		A	ŏ
MOTA	827		ARG	A 633	29.780 29.579			1.00	9.90	A	N
MOTA	828 829	N CA	MET	A 634 A 634	30.711		38.831	1.00	9,96	A	C
ATOM ATOM	830		MET	A 634	30.390	60.815		1.00	10.24 13.69	A A	C
ATOM	831	CG		A 634	28.977			1.00	14.95	A	s
MOTA	832			A 634 A 634	28.439 28.956				14.68	A	C
ATOM	833 834		MET	A 634	32.006		39.614	1.00	9.16	A	C
MOTA MOTA	835			A 634	32.723	60.133		1.00 1.00	8.99 7.65	A A	o N
ATOM	836		THR	A 635	32.294					A	Ċ
MOTA	837		THR	A 635	33.503 33.231					A	С
ATOM	838	CB	THR	A 635 A 635	32.469					A	0
ATOM ATOM	839 840	CG2	THR	A 635	32:472		42.783			A A	C
ATOM	841		THR	A 635	33.934	56.221				A	ŏ
ATOM.	842	0		A 635	35.116					A	N
ATOM	843			A 636 A 636	32.928 33.123				6.94	A	C
ATOM	844 845		LEU	A 636	31.783	53.361	39.326	1.00		A	C
MOTA MOTA	846	S CG	LEU	A 636	31.739	51.948				A A	c
ATOM	847	CD	LEU	A 636	30.455					A	С
MOTA	848		LEU	A 636 A 636	32.913 33.790				8.21	A	C
MOTA	849			A 636	34.47		37.697	1.00	8.27	A	0
ATOM ATOM	850 850		PRO	A 637	33.620	55.220				A A	N C
ATOM	85	S CD		A 637	33.00				8.92 10.63	A	č
MOTA	85	3 CA	PRO	A 637	34.30	9 55.155	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2.00			

ATOM	854	4 CE	DP.	0	A 637		33	.925	56	. 478	35	.341	1.0	a a	.77	A	С
ATOM	855				A 637			.784		.385		. 478			.43	A	č
ATOM	856				A 637			.803		.029		.246		0 12		A	č
ATOM	857				A 637			.318		.515		.252		0 14		A	ō
ATOM	858	3 N	AS	P 2	A 638		36	.498	54	.345	35	.346	1.0	0 12	.76	A	N
MOTA	859		AS	P	A 638		37	.936		.211		.494	1.0	0 12	.16	A	С
ATOM	860				A 638			.520		.282		.426		0 11		A	С
ATOM	861				A 638			.918		.810		.773			.06	A	С
MOTA	862				A 638			. 630		.555		.483			. 47	A	0
ATOM ATOM	863 864				A 638 A 638			.303		.701		.331	1.0		.55	A	0
ATOM	865				A 638			. 450 . 659		.634 .901		.282 .336		0 13 0 16		A A	C
ATOM	866				A 639			513		.542		.017		0 12		A	N
ATOM	867				A 639			862		931		.821		0 12		A	Ĉ
ATOM	868				A 639			131		234		.334		0 13		A	č
ATOM	869				4 639			930		328		.412	1.0		. 98	A	Č
MOTA	870	SD	ME:	r 2	A 639		37.	433	59.	097	30	.859	1.0	7	.83	A	S
ATOM	871				4 639			900		616		.885	1.0		. 47	A	С
ATOM	872				4 639			863		931		.396		13		A	C
ATOM	873				639			098		.583		.672		12		A	0
MOTA MOTA	874 875				A 640 A 640			857		014		.721		13		A	й
ATOM	876				4 640			033 784		986 567		.409 .845	1.00	10	.90	A A	C
ATOM	877				640			960		714		.789	1.00		. 65	A	č
ATOM	878				640			971		692		.924	1.00		. 47	A	č
ATOM	879				640			174		813		.733		10.		A	С
ATOM	880				640		37.	157	60.	881	40	.491	1.00	9.	.70	A	С
ATOM	881				640			366		996		.301	1.00		. 93	A	C
ATOM	882	CZ			640			373		953		.414	1.00		. 95	Α	C
ATOM	883	OH			640			585		051		.204		11.		A	0
ATOM ATOM	884 885	C			640			041		127		.359	1.00		98	A	C
ATOM	886	N			640			714 297		309 727		.445	1.00		68	A A	O N
ATOM	887	CA			641			396		658		.095		10.		A	Č
ATOM	888	CB			641			723		942		.375	1.00		65	A	č
ATOM	889	CG			641			655		435		.107		10.		A	Ċ
ATOM	890	QD1	LASP	A	641		39.	612	58.	802	37.	. 412	1.00	8.	59	A	0
ATOM	891		ASP					664		874		614	1.00		63	Α	0
ATOM	892	C			641		39.			220		. 672		11.		A	С
ATOM	893	0			641		40.			116		. 312		12.		A	0
ATOM ATOM	894 895	N CA			642 642		38. 38.			681 116		. 874 . 487	1.00	11.	26 57	A	D N
ATOM	896	CB			642		39.			292		500	1.00		69	A A	C
ATOM	897	CG			642		40.		62.			639	1.00		32	A	Ċ
ATOM	898	CD			642		41.			752		447	1.00		15	A	č
ATOM	899	OE1	GLN	A	642		40.	960	63.	746	33.	146	1.00	2.	70	A	0
ATOM	900		GLN				42.		62.			361	1.00		90	A	N
ATOM	901	C			642		36.		61.			168	1.00		54	A	C
ATOM ATOM	902 903	O N			642 643		36.		61.			082	1.00		27	A	0
ATOM	904	CA			643		35.5 34.4		62. 62.			165 088	1.00		15 40	A A	N C
ATOM	905	СВ			643		33.1		61.			108	1.00			A	č
ATOM	906	SG			643		33.		62.			792	1.00			A	Š
ATOM	907	С	CYS	A	643		34.0	38	63.	735	34.	471	1.00	8.	44	A	С
ATOM	908	0			643		32.8		64.			420	1.00	8.		Α	0
ATOM	909	N			644		35.0		64.			878	1.00	7.		A	N
ATOM	910	CA CB			644		34.7		65.			288	1.00			A	C
ATOM ATOM	911 912	CG			644 644		35.8 37.2		66.			343 972	1.00			A A	C
ATOM	913	CD			644		38.2		66.		36.		1.00			A	c
ATOM	914	CE	LYS				38.0		66.0		38.		1.00			A	č
ATOM	915	NZ	LYS				39.0		66.		39.		1.00			A	N
MOTA	916	C	LYS	A	644	:	34.8	44	66.8	332	34.	880	1.00	6.		A	С
ATOM	917	0	LYS				33.8		67.4		33.		1.00	9.		Α	0
ATOM	918	N	HIS				36.0		66.9		33.		1.00	4.		A	N
ATOM	919	CA	HIS				36.1		67.8		32.		1.00	3.2		A	C
MOTA	920	CB	HIS				37.3		67.3		31.		1.00	3.4		A	C
ATOM ATOM	921 922	CG CD2	HIS				38.6 38.8		67.3 67.3		32.3 33.3		1.00	3.0		A A	. C
ATOM	923		HIS				39.7		66.7		31		1.00	3.0		A	N .
ATOM	924		HIS				10.7		66.5		32.		1.00	3.5		A	Č 🔐
ATOM	925		HIS	A	645		10.1		66.9		33.		1.00	3.5		A	N
ATOM	926	С	HIS	A	645	3	34.9	05	67.7	82	31.4	437	1.00	1.9		A	C
ATOM	927	0	HIS				14.2		68.8		31.		1.00	2.3		A	0
ATOM	928	N	MET				34.5		66.5		31.0		1.00	0.6		A	N
ATOM	929	CA	MET				3.3		66.3		30.2		1.00	0.0		A	C
ATOM ATOM	930 931	CB CG	MET MET				3.1		64.8		29.9		1.00	0.0		A	C
ATOM	932	SD	MET				2.5		64.5		28.3		1.00	0.0		A A	C S
ATOM	933	CE	MET				1.1		62.4		29.5		1.00	0.0		A	c
ATOM	934	c	MET				2.0		66.9		30.8		1.00	0.0		A	č
									-					-			

3 DOM	935 (,	MET A	646	31.122	67.242	30.112	1.00	0.20	A	0
MOTA MOTA			LEU A		32.080	67.146	32.150	1.00	0.00	A A	N N
ATOM			LEU A		30.947		32.883	1.00	0.00	A	Č
ATOM		CB	LEU A	647	30.724	66.954	34.182	1.00	0.00	A	č
ATOM			LEU A		29.507	67.301	35.042 34.557	1.00	0.00	A	C
ATOM			LEU A		28.290	66.531 66.927	36.485	1.00	0.00	A	С
MOTA		-	LEU A		29.782 31.273	69.173	33.208	1.00	0.26	A	C
MOTA		<u> </u>	LEU F		30,403	69.955	33.588	1.00	0.00	A	0
MOTA		o N	TYR A		32.550	69.514	33.069	1.00	3.00	A	N
ATOM ATOM		CA	TYR A		33.049	70.862	33.307	1.00	4.25	A	C
ATOM		CB	TYR A		34.578	70.865	33.449	1.00	3.00	A A	c
MOTA	947	CG		4 648	35.161	70.777	34.849	1.00	1.95 2.30	A	č
MOTA			TYR A		36.522	70.993 70.954	35.052 36.320	1.00	2.83	A	C
ATOM			TYR A		37.082 34.368	70.509	35.964	1.00	2.39	A	C
MOTA	-		TYR A		34.925	70.465	37.252	1.00	2.33	A	С
MOTA		CZ		A 648	36.283	70.693	37.411	1.00	2.60	A	C
MOTA ATOM		ОН		A 648	36.858	70.686	38.653	1.00	2.81	A	O C
ATOM		C		A 648	32.688	71.679	32.070	1.00	4.62	A A	Ö
ATOM		0		A 648	33.209	72.782	31.868	1.00 1.00	6.78 2.67	A	N
ATOM	956	N		A 649	31.825	71.111 71.776	31.228 30.004	1.00	1.52	A	C
MOTA			VAL		31.391 31.263	70.794	28.834	1.00	1.81	A	С
MOTA		CB	VAL A	A 649	30.428	71.395	27.735	1.00	1.28	A	С
ATOM			VAL		32.640	70.451	28.300	1.00	1.93	A	C
MOTA ATOM		C		A 649	30.043	72.380	30.252	1.00	0.68	A A	0
ATOM		ō		A 649	29.781	73.501	29.864	1.00	0.38 2.29	A A	N
ATOM		N		A 650	29.187	71.624	30.917 31.221	1.00	3.67	A	Ċ
ATOM		CA		A 650	27.848 27.012	72.088 70.923	31.740	1.00	4.42	A	С
ATOM	_	CB		A 650 A 650	26.741	70.022	30.686	1.00	5.99	A	0
MOTA		OG C		A 650	27.783	73.259	32.197	1.00	3.84	A	c
ATOM ATOM		ŏ		A 650	26.908	74.098	32.089	1.00	4.82	A A	O N
MOTA		N		A 651	28.692	73.323	33.156	1.00	2.84 3.19	A	Č
MOTA	970	CA		A 651	28.668	74.433	34.094 35.242	1.00	4.35	A	Č
ATOM	971	CB		A 651	29.642 28.993	74.182 73.482	36.291	1.00	3.26	A	0
MOTA	972	OG		A 651	29.003	75.749	33.393	1.00	3.07	A	C
ATOM	973 974	C O		A 651 A 651	28.325	76.767	33.573	1.00	5.77	A	0
MOTA MOTA	975	N		A 652	30.049	75.729	32.585	1.00	1.49	A	N C
ATOM	976	CA		A 652	30.439	76.919	31.857	1.00	0.00	A A	č
MOTA	977	СВ		A 652	31.703	76.621 77.821	31.041 30.826	1.00	0.00	A	č
MOTA	978	CG		A 652	32.576 32.591	78.723	32.041	1.00	0.00	A	С
ATOM	979 980	CD		A 652 A 652	32.884	78.217	33.141	1.00	0.00	A	0
ATOM ATOM	981	OE2	GLU	A 652	32.301	79.937	31.898	1.00	0.00	A	O C
ATOM	982	c		A 652	29.266	77.333	30.952	1.00	0.00 0.06	A A	ŏ
ATOM	983	0		A 652	28.910	78.498	30.864 30.305	1.00	0.00	Ä	N
MOTA	984	N		A 653	28.660 27.529	76.348 76.540	29.407	1.00	0.00	A	C
ATOM	985	CA		A 653 A 653	27.299	75.242	28.643	1.00	0.00	A	C
ATOM	986 987	CB		A 653	26.638	75.142	27.271	1.00	0.45	A	C
ATOM ATOM	988			A 653	25.323	75.883	27.243	1.00	0.91	A A	C
ATOM	989			A 653	27.588	75.674	26.234	1.00	0.08 0.00	A	č
ATOM	990	С		A 653	26.274	76.895 77.183	30.221 29.670	1.00	0.00	A	ŏ
MOTA	991	0	LEU	A 653	25.213 26.401	76.869		1.00	0.13	A	N
ATOM	992	N CA		A 654 A 654	25.285	77.183		1.00	0.00	A	C
ATOM ATOM	993 994	CB		A 654	24.956	75.982	33.290	1.00	0.00	A	C
ATOM	995	CG		A 654	23.821	76.214	34.238	1.00	0.00	A A	C
ATOM	996			A 654	23.612	75.774		1.00 1.00	0.00 0.00	A	N
ATOM	997			A 654	22.713	76.960 76.972		1.00	0.00	A	C
ATOM	998			A 654	21.870 22.392	76.260		1.00	0.10	A	N
ATOM	999	C NE		A 654 A 654	25.681	78.362		1.00	0.00	A	C
MOTA	1000 1001	Ö		A 654	24.913	78.843		1.00	0.00	A	0
MOTA MOTA	1002	N		A 655	26.914	78.804		1.00	0.00	A	N C
MOTA	1003	CA	ARG	A 655	27.425	79.965	33.776		1.15 3.32	A A	č
MOTA	1004	CB		A 655	28.951		33.942	1.00	4.71	A	č
4- ATOM	1005	CG		A 655	29.789 31.144	81.012 81.015		1.00	_	A	С
ATOM	1006	CD NE		A 655 A 655	30.974	81.007		1.00	10.33	A	N
MOTA	1007 1008	CZ	-	A 655	31.894	81.411	36.431		11.33	A	C
MOTA MOTA	1009	NH	1 ARG	A 655	33.067	81.861			11.72	A A	N
MOTA	1010		2 ARG	A 655	31.637	81.373			11.16 1.78	A	Č
ATOM	1011	C		A 655	27.029 26.644					A	o
ATOM	1012	O N		A 655 A 656	27.094				2.56	A	N
ATOM	1013 1014	N CA		A 656	26.723	81.909	30.606	1.00		A	C
MOTA MOTA	1014	CB		A 656	27.594		29.353	1.00	1.59	A	С
AIOM											

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ATOM	1016	CG	LEU	А	656	29.099	81.596	29.508	1.00	0.90		
ATOM	1017	CD1	LEU	Δ	656	29.738	81.869	28.177	1.00	1.20	A	С
							82.521	30.547	1.00	1.50	A	С
MOTA	1018	CD2	LEU	A	656	29.676						
MOTA	1019	С	LEU	Α	656	25,281	81.667	30.213	1.00	1.35	A	С
						24.749	82.365	29.359	1.00	1.12	A	0
MOTA	1020	0			656							N
ATOM	1021	N	GLN	Α	657	24.652	80.669	30.825	1.00	0.96	A	
	1022	CA	GLN		657	23.269	80.350	30.494	1.00	2.30	A	С
ATOM									1.00	4.65	A	С
ATOM	1023	ÇВ	GLN	А	657	22.313	81.220	31.322				
ATOM	1024	CG	GLN	Α	657	22.455	81.041	32.836	1.00	9.19	A	С
						21.835	82.186	33.650	1.00	11.69	A	C
ATOM	1025	CD	GLN	A	65 <i>l</i>							Õ
ATOM	1026	OE1	GLN	Α	657	22.004	82.263	34.878	1.00	13.17	A	
		NE2	GLN			21.118	83.077	32.967	1.00	12.66	A	N
ATOM	1027								1.00	1.68	A	С
ATOM	1028	С	GLN	Α	657	23.051	80.600	28.990				
ATOM	1029	0	GLN	Δ	657	22.030	81.155	28.583	1.00	0.00	A	0
							80.191	28.184	1.00	1.79	A	N
ATOM	1030	N	VAL	А	638	24.036						
MOTA	1031	CA	VAL	Α	658	24.015	80.349	26.726	1.00	0.18	A	С
			VAL			25.066	79.453	26.021	1.00	0.00	A	С
ATOM	1032	CB								0.00	A	С
ATOM	1033	CG1	VAL	Α	658	24.974	79.652	24.515	1.00			
ATOM	1034	CG2	VAL	Δ	658	26.465	79.775	26.518	1.00	0.00	A	С
							79.984	26.150	1.00	0.00	A	С
ATOM	1035	С	VAL			22.672						ō
ATOM	1036	0	VAL	A	658	21.945	79.191	26.722	1.00	0.00	A	
		N	SER			22.352	80.550	25.000	1.00	0.00	A	N
ATOM	1037						_			0.19	A	С
ATOM	1038	CA	SER	A	りつど	21.075	80.278	24.378	1.00			
ATOM	1039	CB	SER	Α	659	20.477	81.572	23.827	1.00	0.00	A	С
						20.271	82.507	24.869	1.00	0.00	A	0
ATOM	1040	OG	SER									č
ATOM	1041	С	SER	Α	659	21.213	79.255	23.275	1.00	2.56	A	
		ō	SER			22.321	79.008	22.785	1.00	2.52	A	0
ATOM	1042								1.00	4.88	A	N
ATOM	1043	N	TYR	Α	p 60	20.075	78.666	22.895				
ATOM	1044	CA	TYR	Α	660	20.004	77.644	21.841	1.00	5.35	A	С
						18.602	77.032	21.800	1.00	4.05	A	С
ATOM	1045	CB	TYR						_			Ċ
MOTA	1046	CG	TYR	Α	660	18.432	75.932	20.786	1.00	0.56	A	
ATOM	1047	נתי	TYR	Δ	660	19.028	74.696	20.964	1.00	0.60	A	С
						18.903	73.703	20.027	1.00	1.19	A	С
ATOM	1048	CE1										Č
ATOM	1049	CD2	TYR	Α	660	17.697	76.142	19.634	1.00	0.85	A	
ATOM	1050	CE2	TYR	Δ	660	17.567	75.151	18.692	1.00	2.08	A	С
						18.176	73.938	18.895	1.00	1.32	A	С
ATOM	1051	CZ	TYR									Ō
ATOM	1052	OH	TYR	Α	660	18.079	72.971	17.934	1.00	2.12	A	
ATOM	1053	С	TYR	Δ	660	20.360	78.194	20.466	1.00	5.76	A	С
						21.144	77.601	19.737	1.00	6.61	A	0
ATOM	1054	0	TYR								A	N
ATOM	1055	N	GLU	Α	661	19.777	79.324	20.103	1.00	5.56		
ATOM	1056	CA	GLU	A	661	20.100	79.908	18.821	1.00	6.01	A	С
						19.180	81.103	18.532	1.00	6.90	A	С
ATOM	1057	CB	GLU									С
ATOM	1058	CG	GLU	Α	661	17.671	80.830	18.831	1.00	7.00	A	
ATOM	1059	CD	GLU	Α	661	17.043	79.632	18.070	1.00	5.83	A	С
						15.900	79.257	18.405	1.00	5.11	A	0
MOTA	1060		GLU									
ATOM	1061	OE2	GLU	Α	661	17.660	79.068	17.141	1.00	5.63	A	0
ATOM	1062	С	GLU	Δ	661	21.582	80.311	18.866	1.00	6.34	A	С
							80.494	17.824	1.00	7.80	A	0
ATOM	1063	0	GLU			22.209						
ATOM	1064	N	GLU	Α	662	22.138	80.419	20.077	1.00	5.60	A	N
ATOM	1065	CA	GLU	Δ	662	23.560	80.754	20.277	1.00	4.68	A	С
							81.254	21.701	1.00	3.42	A	С
ATOM	1066	CB	GLU	А	662	23.824						
ATOM	1067	CG	GLU	Α	662	23.486	82.709	21.962	1.00	3.57	A	С
	1068	CD	GLU	Δ	662	23.857	83.144	23.370	1.00	3.89	A	С
ATOM								24.330	1.00	3.46	A	0
ATOM	1069		GLU	А	662	23.214	82.683					
ATOM	1070	OE2	$GT\Omega$	А	662	24.801	83.942	23.516	1.00	3.60	A	0
	1071	С	GLU	Δ	662	24.433	79.522	20.064	1.00	3.86	A	С
ATOM							79.611	19.525	1.00	2.57	A	0
MOTA	1072	0	GLU			25.533						
ATOM	1073	N	TYR	Α	663	23.911	78.381	20.516		2.92	A	N
ATOM	1074	CA	TYR			24.547	77.058	20.455	1.00	1.36	A	С
						23.699	76.091	21.294	1.00	1.01	A	С
ATOM	1075	CB	TYR									
ATOM	1076	CG	TYR	Α	663	23.939	74.609	21.084	1.00	0.78	A	C
ATOM	1077		TYR			25,119	74.009	21.500	1.00	0.95	A	С
							72.641	21.351	1.00	1.16	A	С
ATOM	1078		TYR			25.319						
ATOM	1079	CD2	TYR	Α	663	22.963	73.801	20.508	1.00	0.00	A	C
	1080		TYR			23.151	72.442	20.354	1.00	0.07	A	С
ATOM							71.864	20.777	1.00	1.11	A	С
ATOM	1081	CZ	TYR			24.330						
MOTA	1082	OH	TYR	Α	663	24.523	70.507	20.633	1.00	2.23	A	0
	1083	C	TYR			24.744	76.499.	19.046	1.00	0.18	A	С
ATOM								18.686	1.00	1.22	A	0
ATOM	1084	0	TYR			25.817	76.057					
ATOM	1085	N	LEU	Α	664	23.692	76.518	18.252	1.00	0.00	A	N
	1086	CA	LEU			23.769	75.996	16.907	1.00	0.00	A	C
ATOM											A	Ċ
MOTA	1087	CB	LEU	Α	664	22.412	76.141	16.194	1.00	0.00		
ATOM	1088	CG	LEU			21.059	75.657	16.755	1.00	0.00	A	С
						20.091	75.609	15.595	1.00	0.00	A	С
ATOM	1089		LEU									č
ATOM	1090	CD2	LEU	Α	664	21.139	74.285	17.400	1.00	0.00	A	
ATOM	1091	С	LEU	Α	664	24.839	76.711	16.110	1.00	0.00	A	С
							76.143	15.206	1.00	1.46	A	0
MOTA	1092	0	TEO			25.418						
MOTA	1093	N	CYS	A	665	25.093	77.970	16.433	1.00	0.00	A	N
אירויית		CA	CYS	Α	665	26.113	78.742	15.727	1.00	0.60	A	С
ATOM	1094	CA	CYS			26.113	78.742 80.235					
ATOM ATOM ATOM		CA CB SG	CYS CYS CYS	A	665	26.113 25.833 25.517	78.742 80.235 80.981	15.727 15.826 14.234	1.00 1.00 1.00	0.60 2.53 6.81	A A A	C

ATOM	1097	c	CYS A	665	27.441	78.456		1.00	0.80	A	C O
ATOM	1098	-		665	28.445	78.258		1.00 1.00	1.03 2.06	A A	Ŋ
ATOM	1099		MET A		27.418	78.434 78.165	17.694 18.500	1.00	2.69	A	Ċ
ATOM	1100		MET A MET A	666	28.593 28.192	78.099	19.964	1.00	1.39	A	C
ATOM ATOM	1101 1102		MET A		29.192	78.701	20.895	1.00	1.51	A	C
ATOM	1102			666	28.361	79.316	22.353	1.00	0.80 0.75	A A	S C
MOTA	1104		MET A		28.430	77.902	23,452 18,084	1.00	2.96	A	č
MOTA	1105	-	MET A		29.238 30.419	76.853 76.815	17.754	1.00	3.84	A	0
ATOM	1106		MET A LYS A		28.461	75.777	18.085	1.00	2.06	A	N
MOTA MOTA	1107 1108		LYS A		28.991	74.475	17.705	1.00	1.40	A A	C C
ATOM	1109		LYS A	667	27.959	73.371	17.964	1.00	3.10 2.32	A	č
MOTA	1110		LYS A		28.540 27.508	71.960 70.938	18.024 17.606	1.00	1.75	A	С
ATOM	1111		LYS A		27.127	71.129	16.136	1.00	2.03	A	С
ATOM ATOM	1112 1113	CE NZ	LYS A		26.050	70.202	15.668	1.00	3.00	A	N C
ATOM	1114	C	LYS A	667	29.431	74.446	16.243	1.00	0.99 3.23	A A	Ö
ATOM	1115	0	LYS A		30.437	73.819 75.112	15.930 15.343	1.00	0.00	A	N
ATOM	1116	N	THR A		28.711 29.141	75.093	13.945	1.00	0.00	A	С
MOTA	1117 1118	CA CB	THR F		28.281	75.972	13.027	1.00	0.00	A	C
ATOM ATOM	1119		THR F		26.935	75.504	13.018	1.00	0.00	A A	O C
ATOM	1120		THR A		28.811	75.908	11.604 13.802	1.00	0.00	A	č
MOTA	1121	Ċ	THR A		30.575 31.337	75.593 75.092	12.975	1.00	0.00	A	0
MOTA	1122	N O	THR A		30.931	76.593	14.603	1.00	0.00	A	N
ATOM ATOM	1123 1124	CA	LEU 2		32.268	77.166	14.559	1.00	0.00	A A	C
ATOM	1125	CB	LEU A		32.268	78.597	15.098	1.00 1.00	0.00 0.69	A	Č
MOTA	1126	CG	LEU A		31.718 31.802	79.668 81.036	14.143 14.796	1.00	1.66	A	C
ATOM	1127		LEU A		32.504	79.663	12.839	1.00	0.53	A	C
MOTA MOTA	1128 1129	CDZ		A 669	33.240	76.322	15.342	1.00	0.00	A	С 0
MOTA	1130	ŏ	LEU 2	A 669	34.433	76.607	15.385	1.00	0.00 0.43	A A	N
MOTA	1131	N		A 670	32.731	75.274 74.395	15.968 16.713	1.00	1.04	A	C
MOTA	1132	CA		A 670 A 670	33.601 32.816	73.594	17.737	1.00	0.78	A	C
ATOM ATOM	1133 1134	CB CG		A 670	33.617	73.572	19.031	1.00	2.00	A	C
MOTA	1135		LEU		32.855	72.877	20.131	1.00	1.96 2.92	A A	c
ATOM	1136		LEU		34.928	72.892 73.471	18.770 15.685	1.00	1.90	A	Ċ
ATOM	1137	C		A 670 A 670	34.214 35.303	72.938	15.880	1.00	3.58	A	0
ATOM	1138 1139	Ŋ O		A 671	33.497	73.298	14.579	1.00	2.26	A	N
ATOM ATOM	1140	CA		A 671	33.948	72.454	13.487	1.00	3.12 3.12	A A	C
ATOM	1141	CB		A 671	32.834	72.258 71.504	12.461 11.193	1.00	2.58	A	č
ATOM	1142	CG		A 671	33.233 32.002	70.911	10.539	1.00	2.66	A	С
MOTA MOTA	1143 1144			A 671 A 671	33.952	72.437	10.245	1.00	1.15	A	C
ATOM	1145	c		A 671	35.114	73.143	12.832	1.00	3.75 5.20	A A	Ö
ATOM	1146	0		A 671	36.238	72.641 74.307	12.854 12.257	1.00	4.27	A	N
ATOM	1147	N		A 672 A 672	34.832 35.837	75.122	11.570	1.00	3.16	A	С
ATOM	1148 1149	CA CB	LEU	A 672	35.212	76.438	11.096	1.00	3.24	A	C
MOTA MOTA	1150	CG	LEU		34.063	76.359	10.093	1.00	2.96	A A	C
ATOM	1151			A 672	33.512	77.750	9.881 8.781	1.00	2.32 3.56	A	č
ATOM	1152			A 672	34.545 37.065	75.750 75.451	12.411	1.00	2.37	A	С
MOTA	1153 1154	C O		A 672 A 672	38.167	75.529	11.895	1.00	1.83	A	0
ATOM ATOM	1155	N		A 673	36.872	75.634	13.708	1.00	0.69	A A	C N
ATOM	1156			A 673	37.978	75.988	14.580 15.931	1.00	0.34 2.28	A	č
ATOM	1157			A 673	37.437 36.744	76.488 77.724	15.801	1.00	3.07	A	0
ATOM	1158	OG C		A 673 A 673	39.078	74.946	14.812	1.00	0.28	A	C
ATOM ATOM	1159 1160			A 673	39.189	74.370	15.891	1.00	0.00	A	0
ATOM	1161			A 674	39.890		13.780	1.00	0.46 0.28	A A	N C
MOTA	1162			A 674	41.054	73.833 72.540	13.790 14.569	1.00	0.00	A	č
MOTA	1163			A 674 A 674	40.795 42.004		15.097	1.00	0.00	A	0
ATOM	1164 1165			A 674	41.386		12.343	1.00	0.00	A	C
MOTA MOTA	1166			A 674	40.692	72.720		1.00	0.00	Ą	N O
ATOM	1167	N	VAL	a 675	42.431			1.00	0.00 0.93	A A	C
ATOM	1168			A 675	42.878			1.00	5.42	A	С
MOTA	1169			A 675 A 675	42.832 44.233					A	С
ATOM	1170 1171			A 675	42.107	75.173	8.409	1.00	6.64	A	C
ATOM ATOM	1172			A 675	44.306	73.459				A A	C O
ATOM	1173	0	VAL	A 675	44.927					A	Ŋ
ATOM	1174			A 676	44.855 44.300					A	С
ATOM	1175 1176			A 676 A 676	46.227		9.418	1.00	0.00	A	C
MOTA MOTA	1177			A 676	46.36			1.00	0.00	A	С
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ATOM 1257 CE1 PHE A 686 37.612 77.253 8.380 1.00 9.75 A												
ATOM 1180 N LYS A 677 48.238 73.74.664 8.738 1.00 0.92 A ATOM 1182 CA LYS A 677 49.216 74.651 10.371 1.00 2.19 A ATOM 1183 CB LYS A 677 49.216 74.651 10.371 1.00 3.75 A ATOM 1183 CB LYS A 677 50.655 74.179 11.132 1.00 3.75 A ATOM 1184 CG LYS A 677 51.264 75.311 1.079 1.00 4.97 A ATOM 1187 CB LYS A 677 51.264 75.311 1.079 1.00 4.97 A ATOM 1187 CB LYS A 677 51.264 75.311 1.079 1.00 4.97 A ATOM 1187 CB LYS A 677 51.264 75.311 1.079 1.00 4.97 A ATOM 1189 CB LYS A 677 51.264 77.3161 1.165 1.00 4.83 A ATOM 1187 CB LYS A 677 51.264 77.3161 1.165 1.00 4.83 A ATOM 1189 CB LYS A 677 51.00 5.00 5.52 A ATOM 1189 CB LYS A 677 51.00 1.00 5.52 A ATOM 1189 CB LYS A 677 50.149 76.159 8.781 1.00 4.76 A ATOM 1199 CB ASP A 678 49.609 75.000 8.971 1.00 4.76 A ATOM 1199 CB ASP A 678 49.609 74.579 6.611 1.00 7.61 A ATOM 1191 CB ASP A 678 49.609 74.579 6.611 1.00 7.61 A ATOM 1192 CB ASP A 678 49.609 77.032 5.611 1.00 1.00 5.33 A ATOM 1192 CB ASP A 678 50.993 72.563 6.114 1.00 10.02 A ATOM 1193 CG ASP A 678 50.993 72.563 6.114 1.00 10.02 A ATOM 1193 CG ASP A 678 50.993 72.563 6.611 1.00 5.00 B.971 ATOM 1199 CB ASP A 678 50.993 72.563 6.608 1.00 8.623 A ATOM 1199 CB ASP A 678 50.993 73.092 5.814 1.00 8.00 B.972 A ATOM 1199 CB ASP A 678 50.993 73.092 5.814 1.00 8.00 B.972 A ATOM 1199 CB ASP A 678 50.993 73.093 5.814 1.00 8.00 B.973 A ATOM 1199 CB ASP A 678 50.993 74.309 5.814 1.00 8.00 B.973 A ATOM 1199 CB ASP A 679 47.306 74.740 5.395 5.100 8.84 A ATOM 1200 CB ASP A 679 47.306 74.740 5.395 5.100 8.84 A ATOM 1200 CB ASP A 679 47.306 74.740 5.395 5.100 8.84 A ATOM 1200 CB ASP A 679 47.306 74.740 5.395 5.100 8.894 A ATOM 1200 CB ASP A 679 47.306 74.740 5.395 5.100 8.894 A ATOM 1200 CB ASP A 680 44.254 74.318 8.395 5.424 1.00 5.00 B.894 A ATOM 1200 CB LEU A 680 44.254 74.318 1.00 6.00 7.55 A ATOM 1200 CB LEU A 680 44.254 74.318 6.00 3.374 1.00 6.73 A ATOM 1200 CB LEU A 680 44.254 77.315 5.00 3.374 1.00 6.73 A ATOM 1200 CB LEU A 680 44.254 77.315 5.00 0.995 1.00 4.78 A ATOM 1200 CB LEU A 680 44.254 77.315 5.00 0.995 1.00 0.00 A ATOM 1200 CB												
ATOM 1181 N LYS A 677												
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ATOM 1245 CB LEU A 685 36.668 78.494 -0.188 1.00 13.24 A ATOM 1246 CG LEU A 685 36.827 78.467 -1.727 1.00 16.37 A ATOM 1247 CD1 LEU A 685 38.302 78.646 -2.122 1.00 17.41 A ATOM 1248 CD2 LEU A 685 36.283 77.144 -2.293 1.00 17.81 A ATOM 1249 C LEU A 685 36.787 79.664 2.057 1.00 8.74 A ATOM 1250 O LEU A 685 36.076 80.493 2.636 1.00 10.87 A ATOM 1251 N PHE A 686 37.382 78.656 2.692 1.00 7.27 A ATOM 1252 CA PHE A 686 37.205 78.441 4.128 1.00 6.78 A ATOM 1253 CB PHE A 686 38.358 77.605 4.673 1.00 8.71 A ATOM 1254 CG PHE A 686 38.498 77.668 6.168 1.00 9.98 A ATOM 1255 CD1 PHE A 686 37.497 77.171 6.995 1.00 8.89 A ATOM 1256 CD2 PHE A 686 39.622 78.253 6.748 1.00 9.64 A ATOM 1257 CE1 PHE A 686 37.612 77.253 8.380 1.00 9.75												N
ATOM 1246 CG LEU A 685 36.827 78.467 -1.727 1.00 16.37 A ATOM 1247 CD1 LEU A 685 38.302 78.646 -2.122 1.00 17.41 A ATOM 1248 CD2 LEU A 685 36.283 77.144 -2.293 1.00 17.81 A ATOM 1249 C LEU A 685 36.787 79.664 2.057 1.00 8.74 A ATOM 1250 O LEU A 685 36.076 80.493 2.636 1.00 10.87 A ATOM 1251 N PHE A 686 37.382 78.656 2.692 1.00 7.27 A ATOM 1252 CA PHE A 686 37.382 78.656 2.692 1.00 6.78 A ATOM 1253 CB PHE A 686 38.358 77.605 4.673 1.00 8.71 A ATOM 1254 CG PHE A 686 38.498 77.668 6.168 1.00 9.98 A ATOM 1255 CD1 PHE A 686 37.497 77.171 6.995 1.00 8.89 A ATOM 1256 CD2 PHE A 686 39.622 78.253 6.748 1.00 9.64 A ATOM 1257 CE1 PHE A 686 37.612 77.253 8.380 1.00 9.75												C C
ATOM 1248 CD2 LEU A 685 36.283 77.144 -2.293 1.00 17.81 A ATOM 1249 C LEU A 685 36.787 79.664 2.057 1.00 8.74 A ATOM 1250 O LEU A 685 36.076 80.493 2.636 1.00 10.87 A ATOM 1251 N PHE A 686 37.382 78.656 2.692 1.00 7.27 A ATOM 1252 CA PHE A 686 37.205 78.441 4.128 1.00 6.78 A ATOM 1253 CB PHE A 686 38.358 77.605 4.673 1.00 8.71 A ATOM 1254 CG PHE A 686 38.498 77.668 6.168 1.00 9.98 A ATOM 1255 CD1 PHE A 686 37.497 77.171 6.995 1.00 8.89 A ATOM 1256 CD2 PHE A 686 39.622 78.253 6.748 1.00 9.64 A ATOM 1257 CE1 PHE A 686 37.612 77.253 8.380 1.00 9.75 A	ATOM	1246	CG	LEU A	685	36.827	78.467	-1.727	1.00	16.37	A	С
ATOM 1249 C LEU A 685 36.787 79.664 2.057 1.00 8.74 A ATOM 1250 O LEU A 685 36.076 80.493 2.636 1.00 10.87 A ATOM 1251 N PHE A 686 37.382 78.656 2.692 1.00 7.27 A ATOM 1252 CA PHE A 686 37.205 78.441 4.128 1.00 6.78 A ATOM 1253 CB PHE A 686 38.358 77.605 4.673 1.00 8.71 A ATOM 1254 CG PHE A 686 38.498 77.668 6.168 1.00 9.98 A ATOM 1255 CD1 PHE A 686 37.497 77.171 6.995 1.00 8.89 A ATOM 1256 CD2 PHE A 686 39.622 78.253 6.748 1.00 9.64 A ATOM 1257 CE1 PHE A 686 37.612 77.253 8.380 1.00 9.75 A												C
ATOM 1250 O LEU A 685 36.076 80.493 2.636 1.00 10.87 A ATOM 1251 N PHE A 686 37.382 78.656 2.692 1.00 7.27 A ATOM 1252 CA PHE A 686 37.205 78.441 4.128 1.00 6.78 A ATOM 1253 CB PHE A 686 38.358 77.605 4.673 1.00 8.71 A ATOM 1254 CG PHE A 686 38.498 77.666 6.168 1.00 9.98 A ATOM 1255 CD1 PHE A 686 37.497 77.171 6.995 1.00 8.89 A ATOM 1256 CD2 PHE A 686 39.622 78.253 6.748 1.00 9.64 A ATOM 1257 CE1 PHE A 686 37.612 77.253 8.380 1.00 9.75 A												č
ATOM 1252 CA PHE A 686 37.205 78.441 4.128 1.00 6.78 A ATOM 1253 CB PHE A 686 38.358 77.605 4.673 1.00 8.71 A ATOM 1254 CG PHE A 686 38.498 77.668 6.168 1.00 9.98 A ATOM 1255 CD1 PHE A 686 37.497 77.171 6.995 1.00 8.89 A ATOM 1256 CD2 PHE A 686 39.622 78.253 6.748 1.00 9.64 A ATOM 1257 CE1 PHE A 686 37.612 77.253 8.380 1.00 9.75 A	ATOM	1250	0	LEU A	685	36.076	80.493	2.636	1.00	10.87	A	0
ATOM 1253 CB PHE A 686 38.358 77.605 4.673 1.00 8.71 A ATOM 1254 CG PHE A 686 38.498 77.668 6.168 1.00 9.98 A ATOM 1255 CD1 PHE A 686 37.497 77.171 6.995 1.00 8.89 A ATOM 1256 CD2 PHE A 686 39.622 78.253 6.748 1.00 9.64 A ATOM 1257 CE1 PHE A 686 37.612 77.253 8.380 1.00 9.75 A												N C
ATOM 1254 CG PHE A 686 38.498 77.668 6.168 1.00 9.98 A ATOM 1255 CD1 PHE A 686 37.497 77.171 6.995 1.00 8.89 A ATOM 1256 CD2 PHE A 686 39.622 78.253 6.748 1.00 9.64 A ATOM 1257 CE1 PHE A 686 37.612 77.253 8.380 1.00 9.75 A							77.605					С
ATOM 1256 CD2 PHE A 686 39.622 78.253 6.748 1.00 9.64 A ATOM 1257 CE1 PHE A 686 37.612 77.253 8.380 1.00 9.75 A	MOTA			PHE A	686	38.498	77.668	6.168	1.00	9.98		С
ATOM 1257 CE1 PHE A 686 37.612 77.253 8.380 1.00 9.75 A												, C
		1257										С
	MOTA	1258				39.748	78.342	8.128	1.00	9.87	A	. С

ATOM	1259	CZ I	PHE A 68	36	38.741	77.843	•	1.00		A A	C
ATOM	1260	C	PHE A 68	36	37.072	79.715	4.973 5.847	1.00	5.41 4.79	A	ŏ
MOTA	1261		PHE A 68		36.207 37.943	79.797 80.691	4.715	1.00	4.49	A	N
MOTA	1262		ASP A 68 ASP A 68		37.952	81.967	5.442	1.00	3.91	A	C
atom atom	1263 1264		ASP A 68		38.916	82.970	4.780	1.00	6.22	A A	C
ATOM	1265	CG .	ASP A 68	37	40.382	82.530	4.828	1.00 1.00	8.37 9.89	A	ŏ
ATOM	1266		ASP A 68		40.886	82.221 82.515	5.930 3.759	1.00	9.81	A	Ō
ATOM	1267		ASP A 6		41.037 36.566	82.593	5.458	1.00	3.02	A	С
MOTA	1268 1269		ASP A 68 ASP A 68		36.060	83.014	6.496	1.00	0.75	A	0
ATOM ATOM	1270		GLU A 6		35.973	82.663	4.274	1.00	3.44 3.78	A A	N C
ATOM	1271	CA	GLU A 6		34.652	83.235	4.094 2.625	1.00	5.05	A	č
ATOM	1272		GLU A 6		34.243 35.381	83.139 83.451	1.666	1.00	9.77	A	С
MOTA	1273		GLU A 6		35.082	83.097	0.210	1.00		A	C
ATOM ATOM	1274 1275		GLU A 6		36.017	83.188	-0.629	1.00	14.16	A A	0
ATOM	1276		GLU A 6		33.920	82.734	-0.097	1.00	3.21	A	č
MOTA	1277	_	GLU A 6		33.681 33.117	82.442 82.963	4.942 5.901	1.00	2.90	A	0
ATOM	1278	0	GLU A 6		33.529	81.166	4.588	1.00	2.78	A	N
ATOM ATOM	1279 1280	N CA	ILE A 6		32.609	80.236	5.245	1.00	3.97	A	C C
ATOM	1281	CB	ILE A 6		32.710	78.827	4.569	1.00	5.94 6.25	A A	Č
ATOM	1282	_	ILE A 6		34.063	78.223 77.901	4.835 5.072	1.00	4.28	A	Č
ATOM	1283		ILE A 6		31.596 31.420	76.652		1.00	2.06	A	С
MOTA	1284 1285	CDI	ILE A 6		32.720	80.113	6.774	1.00	4.08	A	C O
mota Mota	1286	ŏ	ILE A 6		32.010	79.322	7.396	1.00	4.53 4.27	A A	Ŋ
ATOM	1287	N	ARG A 6		33.591	80.908	7.380 8.827	1.00	5.29	A	Ċ
ATOM	1288	CA	ARG A 6		33.752 35.207	80.888 80.566	9.198	1.00	5.81	A	C
MOTA	1289 1290	CB CG	ARG A 6	i90	35.521	80.652	10.692	1.00	4.04	A	E
ATOM ATOM	1291	CD		90	36.888	80.066	11.028	1.00	2.22	A A	C N
ATOM	1292	NE	ARG A		37.550	80.839	12.072 11.836	1.00	0.00	A	Ċ
ATOM	1293	CZ	ARG A 6		38.368 38.636	81.858 82.222	10.588	1.00	0.00	A	N
ATOM	1294 1295		ARG A 6	590 590	38.902	82.525	12.848	1.00	0.00	A	N
MOTA MOTA	1296	C	ARG A		33.338	82.249	9.383	1.00	6.52	A A	C
ATOM	1297	Ō	ARG A		32.415	82.340	10.199 8.937	1.00	7.32 7.37	A	Ŋ
ATOM	1298	N	MET A		34.018 33.698	83.304 84.658	9.369	1.00	7.80	A	С
MOTA	1299	CA CB	MET A 6		34.406	85.682	8.486	1.00	9.85	A	C
MOTA MOTA	1300 1301	CG	MET A		35.903	85.769	8.634		14.12	A A	C S
ATOM	1302	SD	MET A		36.574	86.503 86.035	7.120 7.212	1.00	17.44 16.54	A	č
MOTA	1303	CE	MET A		38.346 32.194	84.843	9.218	1.00	6.50	A	c
MOTA	1304 1305	C	MET A		31.588	85.656	9.910	1.00	5.11	A	O N
MOTA MOTA	1306	N	THR A		31.605	84.086	8.294	1.00	5.25 5.05	A A	Č
ATOM	1307	CA	THR A		30.171	84.142 83.292	8.039 6.844	1.00	6.07	A	Ċ
ATOM	1308	CB	THR A		29.758 28.330	83.216	6.785	1.00	5.94	A	0
ATOM	1309 1310	OG1 CG2			30.291	81.898	6.991	1.00	7.23	A	C
atom atom	1311	c	THR A		29.363	83.639	9.211	1.00	4.25 5.98	A A	Ö
ATOM	1312	0	THR A		28.444	84.307 82.459	9.665 9.705	1.00		A	N
ATOM	1313	N	TYR A		29.687 28.928	81.931	10.819	1.00	2.04	Α	C
MOTA	1314 1315	CA CB	TYR A		29.353	80.479	11.116	1.00		A	C
MOTA MOTA	1316	CG	TYR A	693	28.580	79.558	10.224	1.00		A A	č
ATOM	1317	CD1	TYR A	693	27.231	79.323 78.672	10.466 9.550	1.00		A	С
ATOM	1318	CEI	TYR A	693	26.443 29.127		9.036		0.00	A	c
ATOM ATOM	1319 1320		TYRA	693	28.347	78.447	8.106			A A	C
ATOM	1321		TYR A	693	27.001		8.367	1.00		A	ŏ
ATOM	1322		TYR A		26.201 29.050		7.433 12.019			A	С
MOTA	1323		TYR A		28.086		12.757			A	0
ATOM ATOM	1324 1325		TYR A		30.233	83.406	12.182	1.00		A	и С
ATOM	1326		ILE A		30.481		13.289			A A	č
MOTA	1327	CB	ILE A		31.855		13.171 14.439			A	С
ATOM	1328	CG	2 ILE A	694 694	32.170 32.886		12.934			A	С
ATOM	1329 1330	CG:	1 ILE A	694	34.232	84.349	12.535	1.00	8.00	A	C
MOTA MOTA	1331		ILE A	694	29.411	85.392	13.308	1.00		A A	C O
ATOM	1332		ILE A	694	28.818		14.353			_	Ŋ
MOTA	1333		LYS A		29.152 28.110		12.164 12.123			_	С
MOTA	1334				27.915				6.97	A	_
ATOM ATOM	1335 1336		_		28.139	89.124	10.604	1.00			
MOTA	1337		LYS A	695	27.684					_	
MOTA	1338	CE	LYS A		28.315					_	
ATOM	1339) NZ	LYS A	695	29.808	, 09.002	3.04				

7.00	1016 1040 -	
	OM 1340 C LYS A 695	26.821 86.365 12.594 1.00 6.48 A C
	OM 1341 O LYS A 695	26 084 86 915 13 413 1 99 7 9
	OM 1342 N GLUA 696	26 561 85 163 13 000 7 00 7 10
	OM 1343 CA GLU A 696	25 358 84 453 12 480 1 00 1 1 N
	OM 1344 CB GLU A 696	25 300 93 072 11 045
	OM 1345 CG GLU A 696	22 022 02 711 11 070 1.10 A
	OM 1346 CD GLUA 696	23 399 93 743 10 414
AT	OM 1347 OE1 GLU A 696	24 016 93 032 0 355 1 00 7 10 M
AT	OM 1348 OE2 GLU A 696	22 352 04 371 10 715
AT	OM 1349 C GLU A 696	25 355 94 337 13 00F 1 00 130 A
AT	OM 1350 O GLU A 696	24 300 94 354 14 610 1 2
AT		26 E42 24 170 14 FE
ATC		26.542 84.172 14.558 1.00 4.90 A N
ATO		26.665 84.076 16.004 1.00 3.42 A C
ATO		28.061 83.583 16.393 1.00 2.36 A C
ATO	TO 110 1 05/	28.488 83.730 17.856 1.00 2.13 A C
ATO		27.527 82.994 18.743 1.00 1.88 A C
ATO	424 220 21 037	29.894 83.198 18.043 1.00 2.22 A C
ATO		26.461 85.498 16.483 1.00 2.99 A C
ATO	Ind A 057	25.926 85.745 17.559 1.00 2.83 A O
ATC		26.879 86.435 15.646 1.00 1.86 A N
ATO		26.754 87.837 15.978 1.00 4.30 A C
ATO	1000	25.322 88.326 15.977 1.00 4.91 A C
ATO	000 11 000	25.051 89.503 16.220 1.00 4.83 A O
ATO		24.395 87.431 15.688 1.00 4.49 A N
	210 11 000	23.001 87.814 15.684 1.00 4.89 A C
ATO:		22.405 87.520 14.312 1.00 4.61 A C
ATO		23 112 00 272 13 200 1 00
ATO		22 472 99 004 11 040
ATO		23 150 00 053 10 750
ATO	210 2 033	23 133 90 320 11 050 1 00 0 0 A
ATO	= === 11 055	22 313 97 020 16 700 7 00 0 0 0 A N
ATOM	772 11 000	21 224 87 363 17 247 1 00 G
ATON		23 005 85 975 17 200 1 00 5 7 A
ATOM		22 545 85 072 18 070 1 00 1 01 R N
ATOM		23 464 93 966 10 310 1.00 4.30 A
ATOM	The state of the s	22 488 95 730 10 643 1 00 0 7
ATOM		21 599 85 421 20 445 1.00 3.72 . A C
ATOM		23 457 86 607 10 000 1 00 1 00 A
ATOM	1 1378 CA ILE A 701	23 557 97 322 21 100 1.31 A N
ATOM	1379 CB ILE A 701	24 972 97 945 97 140 0.37 A
ATOM		24 987 98 636 99 739 1.00 0.12 A
ATOM	1381 CG1 ILE A 701	25 977 96 699 91 477
ATOM	1382 CD1 ILE A 701	27 405 97 127 21 505 A
ATOM	1383 C ILE A 701	22 676 DO 521 21 22 1:00 0:00 A
ATOM		22 400 DO 000
ATOM	1385 N VAL A 702	22 227 00 007
ATOM	1386 CA VAL A 702	21 302 00 040 to cot
ATOM	1387 CB VAL A 702	21 724 00 526 10 100
ATOM	1388 CG1 VAL A 702	20 465 90 015 17 450
ATOM	1389 CG2 VAL A 702	22 644 B1 722 10 256
ATOM	1390 C VAL A 702	19 916 99 595 10 700 1.00 A
ATOM	1391 O VAL A 702	10 146 00 000 A
MOTA	1392 N LYS A 703	10 E74 00 10 A
MOTA	1393 CA LYS A 703	18 1/19 97 070 10 016 1.00 0.00 A N
ATOM	1394 CB LYS A 703	18 063 96 E11 10 DD
ATOM	1395 CG LYS A 703	19 472 PE 255 17 241
ATOM	1396 CD LYS A 703	17 369 96 ED7 16 366 100 0.00 A
ATOM	1397 CE LYS A 703	15 100 0.00 A
ATOM	1398 NZ LYS A 703	15 097 85 082 15 52C 1 00 0 00
ATOM	1399 C LYS A 703	17 605 89 115 20 605 1 00 1 00 A
ATOM	1400 O LYS A 703	16 544 89 603 30 345
ATOM	1401 N ARG A 704	18 341 97 500 21 500 T 60 T 7
ATOM	1402 CA ARG A 704	17 935 97 COO 90 975 1.00 2.33 A N
ATOM	1403 CB ARG A 704	18 716 96 631 33 755 1.00 3.00 A
MOTA	1404 CG ARG A 704	18 570 95 230 23 130 1.00 A
ATOM	1405 CD ARG A 704	17 175 84 633 33 488 1.00 A
ATOM	1406 NE ARG A 704	16 360 PA 333 33 33 347 1.00
ATOM	1407 CZ ARG A 704	16:705 93 463 33 300 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
ATOM	1408 NH1 ARG A 704	17 853 92 916 21 206 1 20 2 2 2
ATOM	1409 NH2 ARG A 704	15 904 92 220 20 002
ATOM	1410 #C ARG A 704 :	18 270 90 115 92 425
ATOM	1411 O ARG A 704	19 056 90 337 04 330 4 3
ATOM	1412 N GLU A 705	17 641 90 080 22 710 1.00 0.25 A
ATOM	1413 CA GLU A 705	17 960 01 F22 00 000
ATOM	1414 CB GLU A 705	17 050 02 004 04 007
ATOM	1415 CG GLU A 705	17 405 01 576 05 477
ATOM	1416 CD GLU A 705	17.406 91.576 25.475 1.00 7.03 A C
ATOM	1417 OE1 GLU A 705	16.345 91.955 26.532 1.00 5.39 A C
ATOM	1418 OE2 GLU A 705	16.531 91.602 27.726 1.00 4.32 A O
ATOM	1419 C GLU A 705	15.322 92.599 26.170 1.00 3.90 A O
ATOM	1420 O GLU A 705	19.346 91.819 23.065 1.00 13.29 A C
	C CDO A 703	20.179 91.052 22.575 1.00 14.70 A O

3.00M	1421	N	GLY A	706	19.698	92.928	23.711	1.00		A	N
ATOM ATOM	1422		GLY A		21.116	93.243	23.860	1.00		A A	C
ATOM	1423		GLY A	706	21.533	94.695	24.063 24.159	1.00	14.43	A	ŏ
ATOM	1424	-	GLY A		20.694 22.849	95.601 94.902	24.132		11.55	A	N
ATOM	1425		asn a Asn a		23.463	96.221	24.335	1.00	9.56	A	C
ATOM ATOM	1426 1427		ASN A		23.500	96.567	25.841	1.00	5.07	A A	C
ATOM	1428	CG	ASN A	707	23.740	98.063	26.123	1.00	1.03 0.00	A A	Ö
ATOM	1429		ASN A		23.426	98.548 98.782	27.213 25.158	1.00	0.00	A	N
MOTA	1430		ASN A		24.299 24.877	96.042	23.821	1.00	10.04	A	С
MOTA	1431 1432	0	ASN A ASN A		25.588	95.198	24.334	1.00	9.41	A	0
ATOM ATOM	1433	N	SER A		25.284	96.820	22.818	1.00		A A	N C
ATOM	1434	CA	SER A		26.635	96.694	22.255 21.188	1.00	9.93	A	č
MOTA	1435	CB	SER A		26.893 28.170	97.751 97.541	20.599	1.00	9.05	A	0
MOTA	1436	OG C	SER A		27.780	96.738	23.262	1.00		A	C
ATOM ATOM	1437 1438	Ö	SER A		28.941	96.598	22.885	1.00		A A	o N
ATOM	1439	N	SER A	709	27.467	96.974	24.532	1.00 1.00	9.40 8.56	A	C
ATOM	1440	CA	SER A		28.494	96.957 98.053	25.569 26.618	1.00	5.99	A	C
ATOM	1441	CB	SER A		28.253 28.697	99.320	26.147	1.00	1.95	A	0
ATOM. ATOM	1442 1443	OG C	SER A		28.343	95.563	26.177	1.00	9.62	A	C
ATOM	1444	ŏ	SER A		29.295	94.987	26.711	1.00	8.59 11.06	A A	N
ATOM	1445	N	GLN A		27.125	95.032	26.048 26.529		11.27	A	C
MOTA	1446	CA	GLN A		26.763 25.417	93.697 93.758	27.288		10.72	A	C
MOTA	1447 1448	CB CG	GLN A		25.143	92.547	28.203		10.12	A	C
ATOM ATOM	1449	CD	GLN A		23.981	92.749	29.175	1.00	9.53 8.92	A A	C
ATOM	1450	OE1			24.084	93.502	30.146 28.912	1.00	8.68	A	N
ATOM	1451	NE2	GLN A		22.871 26.698	92.068 92.735	25.313		10.93	A	С
ATOM	1452 1453	0	GLN A		26.680	91.499	25.458	1.00	11.13	A	0
ATOM ATOM	1454	N	ASN A		26.665	93.312	24.114	1.00	9.97 9.00	A A	C M
ATOM	1455	CA	ASN A	711	26.660	92.511	22.901 21.645	1.00	9.76	A	č
ATOM	1456	CB	ASN A		26.429 24.949	93.369 93.527	21.290	1.00		A	С
ATOM	1457 1458	CG	ASN A		24.608	93.787	20.135	1.00		A	0
ATOM ATOM	1459		ASN A		24.071	93.380	22.279	1.00		A A	C
MOTA	1460	С	ASN A	711	28.075	91.962	22.898 23.293	1.00	8.33 8.46	Â	ŏ
MOTA	1461	0	ASN A		28.299 29.028	90.820 92.797	22.490	1.00	7.41	A	N
MOTA	1462 1463	N CA	TRP A		30.431	92.405	22.459	1.00	6.17	A	C
ATOM ATOM	1464	CB		712	31.268	93.454	21,703	1.00	4.41 2.75	A A	C
ATOM	1465	CG	TRP A		31.288	93.276 94.153	20.202 19.223	1.00	1.92	A	č
MOTA	1466		TRP A		30.725 30.982	93.581	17.949	1.00	1.81	A	C
ATOM	1467 1468	CE2			30.029	95.369	19.295	1.00	2.80	A	C
ATOM ATOM	1469	CD1	TRP A		31.848	92.240	19.503	1.00	1.53 0.68	A A	N
ATOM	1470	NE1			31.670	92.417 94.181	18.151 16.755	1.00	0.96	A	C
MOTA	1471		TRP P		30.567 29.614	95.978	18.102	1.00	3.24	A	С
ATOM	1472 1473	CZ3	TRP A		29.888	95.377	16.846	1.00	2.47	A	C
ATOM ATOM	1474	C	TRP A		30.966	92.228	23.887	1.00	6.22 7.16	A A	C
MOTA	1475	0	TRP F	712	32.105	92.587 91.673	24.175 24.770	1.00	6.28	A	N
MOTA	1476	N	GLN F	713	30.136 30.495	91.421	26.173	1.00	6.98	A	C
ATOM	1477 1478	CA CB	GLN F	4 713 4 713	29.628	92.292	27.096	1.00	6.75	A	C
MOTA MOTA	1479	CG	GLN F	A 713	30.334	92.903	28.306	1.00	5.77 4.57	A A	C
MOTA	1480	CD	GLN Z	A 713	30.793	91.879 91.199	29.328 29.144	1.00		A	ŏ
ATOM	1481	OE:	GLN 2	A /13 A 713	31.801 30.045	91.764	30.413	1.00	3.96	A	N
MOTA	1482 1483	C	GIN 2	A 713	30.259	89.919	26.469	1.00		A	C
ATOM ATOM	1484	ŏ	GLN A	A 713	30.728	89.368	27.484	1.00		A A	O N
ATOM	1485	N	ARG A	A 714	29.506	89.270	25.581 25.697	1.00		A	Ĉ
MOTA	1486	CA		A 714	29.240 27.742	87.841 87.525	25.585	1.00		A	С
MOTA	1487 1488	CB CG	ARG	A 714 A 714	27.138	86.905	26.859	1.00		Α.	C
ATOM ATOM	1489	CD	ARG	A 714	25.671	86.566				A	C N
MOTA	1490	NE	ARG	A 714	25.469	85.293	25.998 26.610			A : A	C
ATOM	1.491	CZ	ARG	A 714	25.344	84.118 84.049				A	N
ATOM	1492	NH	ARG	A 714 A 714	25.399 25.160	83.014		1.00	0.00	A	N
MOTA MOTA	1493 1494	NH.	ARG	A 714	29.986	87.211	24.550	1.00		A	C
ATOM	1495	ŏ	ARG	A 714	30.481	86.111				A A	N
ATOM	1496		PHE	A 715	30.078	87.923 87.394				A	Ċ
MOTA	1497	CA	PHE	A 715 A 715	30.805 30.852				1.08	A	С
MOTA	1498 1499	CB CG	PHE	A 715	31.662	87.832	19.998	1.00		A	C
MOTA MOTA	1500	CD	1 PHE	A 715	31.075	87.070				A A	C
MOTA	1501	CD	2 PHE	A 715	33.026	88.098	19.921	1.00	. 0.00	A	•

ATOM	1502	CE1	PHE A 715	31.832	86.585	17.946	1.00	0.00	7		C
ATOM	1502		PHE A 715	33.791	87.616	18.867	1.00	0.00	Į		C
ATOM	1504	CZ	PHE A 715	33.193	86.862	17.877	1.00	0.00 2.81	7		c
MOTA	1505	C	PHE A 715	32.215	87.167	22.756 22.032	1.00	2.78	1		ŏ
ATOM	1506	0	PHE A 715	33.003 32.559	86.584 87.670	23.932	1.00	4.94	2		N
ATOM	1507	N	TYR A 716 TYR A 716	33.898	87.429	24.433	1.00	6.32	2		С
ATOM ATOM	1508 1509	CA CB	TYR A 716	34.315	88.441	25.491	1.00	4.84		1	C
ATOM	1510	CG	TYR A 716	35.684	88.113	26.048	1.00	5.32		1	C
ATOM	1511	CD1		35.827	87.469	27.273	1.00	4.24 4.26		}	C
ATOM	1512		TYR A 716	37.077	87.083	27.740	1.00	4.28		ž	č
ATOM	1513	CD2	TYR A 716	36.837 38.089	88.368 87.984	25.304 25.763	1.00	4.48		4	C
ATOM	1514	CE2	TYR A 716 TYR A 716	38.202	87.340	26.980	1.00	4.17	7	4	С
ATOM	1515 1516	CZ	TYR A 716	39.440	86.943	27.435	1.00	5.02		7	0
MOTA MOTA	1517	C	TYR A 716	33.851	86.049	25.063	1.00	6.65		7	C O
ATOM	1518	ō	TYR A 716	34.599	85.151	24.677	1.00	7.40 5.38		J.	N
MOTA	1519	N	GLN A 717	32.946	85.884	26.023 26.721	1.00 1.00	4.32		Ā	ĉ
MOTA	1520	CA	GLN A 717	32.775 31.696	84.615 84.775	27.786	1.00	4.38		Ā	Ċ
MOTA	1521	CB	GLN A 717 GLN A 717	32.118	85.659	28.948	1.00	3.72		A	С
MOTA	1522 1523	CG	GLN A 717	33.157	84.985	29.807	1.00	3.02		A.	C
ATOM ATOM	1524		GLN A 717	33.586	85.522	30.823	1.00	0.12		A	0
ATOM	1525	NE2		33.569	83.787	29.401	1.00	3.65 3.42		A A	N C
ATOM	1526	С	GLN A 717	32.463	83.420	25.811 25.957	1.00 1.00	1.69		A	ŏ
MOTA	1527	0	GLN A 717	33.073 31.524	82.363 83.578	24.881	1.00	3.14		A	N
ATOM	1528	N	LEU A 718 LEU A 718	31.194	82.486	23.977	1.00	2.41		A	С
ATOM	1529 1530	CA CB	LEU A 718	29.994	82.815	23.097	1.00	1.83		A	c
ATOM ATOM	1531	CG	LEU A 718	28.701	83.127	23.844	1.00	2.16		A	C
ATOM	1532		LEU A 718	27.533	83.009	22.888	1.00	2.76 2.57		A A	c
ATOM	1533	CD2	LEU A 718	28.522	82.184	25.009 23.104	1.00 1.00	2.30		A	č
MOTA	1534	C	LEU A 718	32.381 32.418	82.172 81.149	22.450	1.00	3.41		A	0
ATOM	1535	0	LEU A 718 THR A 719	33.352	83.065	23.069	1.00	2.24		A	N
ATOM ATOM	1536 1537	N CA	THR A 719	34.549	82.795	22.293	1.00	3.59		A	C
ATOM	1538	CB	THR A 719	35.034	84.083	21.532	1.00	4.42		A A	c o
ATOM	1539	OG1	THR A 719	34.182	84.308	20.401	1.00	2.60 3.27		A	Č
ATOM	1540	CG2		36.471 35.575	83.941 82.280	21.028 23.324	1.00	5.21		A	С
MOTA	1541	C	THR A 719 THR A 719	36.647	81.780	22.976	1.00	4.34		A	0
ATOM	1542 1543	O N	LYS A 720	35.193	82.379	24.600	1.00	6.41		A	N
ATOM ATOM	1544	CA	LYS A 720	36.007	81.929	25.734	1.00	7.03		A	C
ATOM	1545	CB	LYS A 720	35.539	82.619	27.025	1.00	6.13 5.37		A A	c
MOTA	1546	CG	LYS A 720	36.539	82.620 83.634	28.182 27.977	1.00	3.60		A	Č
ATOM	1547	CD	LYS A 720 LYS A 720	37.663 38.589	83.700	29.189	1.00	2.91		A	С
ATOM	1548 1549	CE NZ	LYS A 720	37.903	84.103	30.446	1.00	1.42		A	N
ATOM ATOM	1550	C	LYS A 720	35.782	80.421	25.855	1.00	7.38		A	C
ATOM	1551	Ó	LYS A 720	36.730	79.631	25.908	1.00	7.74 7.00		A A	N
ATOM	1552	N	LEU A 721	34.512	80.030 78.619	25.910 25.992	1.00	7.12		A	C
MOTA	1553	CA	LEU A 721 LEU A 721	34.169 32.660	78.435	25.860	1.00	5.23		A	C
MOTA	1554 1555	CB	LEU A 721	32.169	77.021	26.130	1.00	4.81		A	C
ATOM ATOM	1556		LEU A 721	32.511	76.597	27.548	1.00	4.72		A	C
ATOM	1557		LEU A 721	30.695	76.983	25.916	1.00	4.28 7.81		A A	č
ATOM	1558	С	LEU A 721	34.885	77.924 77.237	24.836 25.040	1.00 1.00	5.88		A	ō
ATOM	1559	0	LEU A 721 LEU A 722	35.878 34.385	78.126	23.621	1.00	7.41		A	N
ATOM	1560 1561	N CA	LEU A 722	34.994	77.537	22.431	1.00	4.26		A	C
ATOM ATOM	1562	CB	LEU A 722	34.457	78.159	21.142	1.00	2.07		A	C
ATOM	1563	CG	LEU A 722	33.007	77.983	20.721	1.00	1.49 1.51		A A	č
ATOM	1564		LEU A 722	32.762	78.829	19.508 20.414	1.00 1.00	0.89		A	č
ATOM	1565		LEU A 722	32.723 36.474	76.537 77.783	22.456	1.00	1.91		A	С
ATOM	1566	C	LEU A 722 LEU A 722	37.200	77.226	21.649	1.00	4.15		A	0
MOTA	1567 1568	N O	ASP A 723	36.922	78.654	23.348	1.00	0.00		A	N
ATOM ATOM	1569	CA	ASP A 723	38.341	78.930	23.444	1.00	0.00		A A	C
ATOM	1570	СВ	ASP A 723	38.577	80.320	24.012	1.00	2.77 1.89		A	c
MOTA	1571	CG	ASP A 723	39.382	81.181 81.134	23.085 21.875	1.00 1.00	1.94		A	ŏ
ATOM	1572	OD:	ASP A 723	39.076 40.304	81.134	23.562	1.00	2.67		A	0
MOTA	1573	C	ASP A 723 ASP A 723	38.927	77.893	24.361	1.00	0.07		A	C
ATOM ATOM	1574 1575	Ö	ASP A 723	39.994	77.352	24.080	1.00	0.00		A	0 N
atom atom	1576	N	SER A 724	38.207	77.625	25.452		0.04		A A	N C
ATOM	1577	CA	SER A 724	38.602	76.632	26.446		0.49		A	Č
ATOM	1578	CB	SER A 724	37.863	76.858 76.578	27.768 27.646		0.00		A	ō
ATOM	1579	OG	SER A 724 SER A 724	36.479 38.286	75.233	25.927		0.77		A	C
ATOM	1580 1581	0	SER A 724 SER A 724	38.554	74.239	26.593	1.00	0.00		A	0
ATOM ATOM	1581	Ŋ	MET A 725	37.717	75.160			1.57		A	N
AION		-									

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MOTA	1583	CA N	ÆT A	725	37.386	73.878	24.142	1.00	3.27	A	C C
ATOM	1584	CB N	ÆT A		36.446	74.057	22.955 23.378	1.00	1.49	A A	Ċ
ATOM	1585		MET A		35.003 34.593	74.115 72.720	24.435	1.00	0.00	A	S
MOTA	1586 1587		A TEN A TEN	725 725	34.143	71.571	23.228	1.00	0.00	A	C
ATOM ATOM	1588		ÆT A		38.598	73.071	23.723	1.00	5.34	A	C
ATOM	1589	0 1	MET A	725	38.750	71.922	24.142	1.00	6.48 6.92	A A	N O
ATOM	1590		HIS A		39.466	73.659 72.940	22.904 22.450	1.00	7.76	A	Ċ
ATOM	1591		HIS A		40.661 41.604	73.870	21.699	1.00	7.20	A	С
ATOM ATOM	1592 1593		HIS A		40.914	74.821	20.771	1.00	8.49	A	C
ATOM	1594		HIS A		41.087	75.054	19.449	1.00	7.36	A A	C N
ATOM	1595		HIS A		39.970	75.726	21.202 20.184	1.00	6.69 7.19	A	Ċ
MOTA	1596		HIS A		39.594 40.258	76.480 76.093	19.110	1.00	7.57	A	N
ATOM	1597 1598		HIS A		41.409	72.340	23,639	1.00	7.38	A	C
MOTA MOTA	1599		HIS A		41.919	71.225	23.558	1.00	7.19	A	O N
ATOM	1600		GLU A	727	41.477	73.089	24.737	1.00	6.23 4.21	A A	C
MOTA	1601		GLU A		42.156 42.345	72.622 73.779	25.938 26.942	1.00	6.03	A	c
ATOM	1602		GLU A		43.378	74.844	26.524	1.00	8.05	A	С
ATOM ATOM	1603 1604		GLU A		44.452	75.125	27.606	1.00	9.58	A	C
ATOM	1605	OE1	GLU P	727	44.079	75.498	28.743		10.35 9.03	A A	0
MOTA	1606		GLU A		45.670	74.975 71.475	27.318 26.615	1.00	1.78	A	č
ATOM	1607	-	GLU P GLU P		41.406 41.932	70.845	27.512	1.00	2.34	A	0
ATOM ATOM	1608 1609		VAL A		40.182	71.200	26.186	1.00	0.00	A	N
ATOM	1610		VAL F		39.388	70.133	26.795	1.00	0.00	A A	C
MOTA	1611		VAL A		37.862	70.430	26.686 27.041	1.00 1.00	0.00 0.00	A	č
MOTA	1612		VAL A		37.066 37.473	69.203 71.574	27.618	1.00	0.00	A	С
ATOM	1613 1614		VAL A		39.659	68.795	26.131	1.00	0.00	A	C
ATOM ATOM	1615		VAL A		40.085	67.841	26.770	1.00	0.00	A A	O N
ATOM	1616		VAL A		39.398	68.749	24.834 24.016	1.00	0.98 1.12	A	C
MOTA	1617		VAL A		39.578 39.193	67.564 67.888	22.572	1.00	0.91	A	C
ATOM	1618 1619	CB CG1	VAL I	A 729 A 729	39.412	66.717	21.689	1.00	0.99	A	С
ATOM ATOM	1620		VAL I		37.748	68.296	22.527	1.00	3.41	A	C
ATOM	1621	С	VAL 2	A 729	40.969	66.933	24.063	1.00	0.04 0.54	A A	Ö
ATOM	1622	0		A 729	41.113 41.997	65.766 67.684	23.742 24.445	1.00	0.00	A	N
MOTA	1623 1624	N CA		A 730 A 730	43.317	67.078	24.539	1.00	0.00	A	C
ATOM ATOM	1625	CB		A 730	44.418	68.111	24.814	1.00	0.00	A A	C
ATOM	1626	CG		A 730	45.869	67.518	24.894 26.272	1.00	0.00	A	č
ATOM	1627	CD		A 730 A 730	46.540 47.701	67.685 67.266	26.422	1.00	0.00	A	0
MOTA MOTA	1628 1629	OE1 OE2		A 730	45.913	68.231	27.211	1.00	0.08	A	0
MOTA	1630	C		A 730	43.209	66.153	25.726	1.00	0.00	A A	C
ATOM	1631	0		A 730	43.744	65.046 66.619	25.716 26.755	1.00 1.00	0.00	A	N
MOTA	1632	N		A 731 A 731	42.510 42.317	65.824	27.963	1.00	0.00	A	С
ATOM ATOM	1633 1634	CA CB		A 731	41.755	66.694	29.086	1.00	0.00	A	C
ATOM	1635	CG	ASN .	A 731	42.811	67.545	29.731	1.00	0.00	A A	C
ATOM	1636			A 731	42.736	67.829 67.962	30.924 28.949	1.00	0.00	A	N
ATOM	1637	ND2 C		A 731 A 731	43.810 41.411	64.609	27.748	1.00	0.00	A	C
ATOM ATOM	1638 1639	Ö		A 731	41.661	63.521	28.273	1.00	0.00	A	0
MOTA	1640	N	LEU	A 732	40.352	64.806	26.979	1.00	0.00 0.00	A A	N C
MOTA	1641	CA		A 732	39.430	63.739 64.329	26.695 26.178	1.00	0.00	A	Č
MOTA	1642	CB		A 732 A 732	38.126 37.030	64.595	27.207	1.00	_	A	С
MOTA MOTA	1643 1644	CD1	LEU	A 732	36.288	63.300	27.408	1.00		A	·C
ATOM	1645	CD2	LEU	A 732	37.594	65.116	28.515	1.00		A A	C
ATOM	1646	С	LEU	A 732	40.049	62.800	25.682 25.889	1.00		A	ŏ
MOTA	1647	0		A 732	40.056 40.574	61.594 63.341	24.586	1.00		A	N
MOTA	1648	N CA	TEU	A 733 A 733	41.225	62.502	23.571	1.00		A	C
ATOM ATOM	1649 1650	CB	LEU	A 733	41.862	63.353	22.475	1.00		A	C
ATOM	1651	CG	LEU	A 733	40.887	64.176		1.00		A A	C
MOTA	1652	CD1	LEU	A 733	41.638	64.855 63.262		1.00		A	č
MOTA	1653		LEU	A 733 A 733	39.767 42.310	61.659		1.00	0.77	A	С
ATOM ATOM	1654 1655	С 0	LEU	A 733	42.451	60.480	23.942	1.00	0.00	A	0
ATOM	1656		ASN	A 734	43.078	62.296	25.101	1.00		A A	N C
ATOM	1657	CA	ASN	A 734	44.136			1.00		A	č
MOTA	1658		ASN	A 734 A 734	44.876 46.027			1.00		A	С
MOTA	1659 1660	CG	ASN	A 734	45.954		24.811	1.00	1.62	A	0
atom Atom	1661	ND2	ASN	A 734	47.095	63.611	26.739			A A	N C
ATOM	1662	С	ASN	A 734	43.510					A	ŏ
ATOM	1663	0	ASN	A 734	44.080	60.192	21.130	1.00			-

ATOM	1664	N	TYR A	A 735	42.329	60.084	26.351	1.00	5.64	A A	N C
ATOM	1665	CA	TYR A		41.646	59.041	27.115	1.00	7.62 7.88	A	C
ATOM	1666	CB	TYR I		40.944	59.651 59.013	28.342 29.687	1.00	8.63	A	Č
ATOM	1667	CG CD1	TYR A		41.295 41.092	57.650	29.912	1.00	8.27	A	С
MOTA MOTA	1668 1669	CE1	TYR A		41.369	57.069	31.158	1.00	7.44	A	c
ATOM	1670	CD2	TYR A		41.789	59.785	30.746	1.00	7.71	A	C
ATOM	1671	CE2	TYR A		42.069	59.217	31.996	1.00	6.69	A A	C
ATOM	1672	CZ	TYR I		41.858	57.853	32.196 33.413	1.00	7.17 6.25	A	ŏ
MOTA	1673	OH	TYR A		42.151	57.261 58.275	26.231	1.00	8.33	A	č
MOTA	1674	C	TYR A	A 735	40.636 39.890	57.417	26.706	1.00	9.28	A	0
ATOM ATOM	1675 1676	N N		A 736	40.603	58.607	24.947	1.00	8.05	A	N
ATOM	1677	CA		A 736	39.736	57.926	23.992	1.00	7.40	A	C
ATOM	1678	CB		A 736	38.700	58.899	23.409	1.00 1.00	7.12 5.81	A A	S
MOTA	1679	SG		A 736	39.325 40.727	60.290 57.485	22.421 22.933	1.00	7.61	A	č
ATOM	1680	0		A 736 A 736	40.403	56.833	21.952	1.00	8.89	A	0
ATOM ATOM	1681 1682	Ŋ		A 737	41.961	57.883	23.196	1.00	7.54	A	N
ATOM	1683	CA		A 737	43.154	57.632	22.398	1.00	6.57	A A	C
MOTA	1684	CB		A 737	43.849	58.978	22.140	1.00	5.79 3.18	A	Č
MOTA	1685	CG		A 737	45.230 45.441	58.871 58.945	21.572 20.203	1.00	3.63	A	č
MOTA	1686		PHE I		46.319	58.728	22.403	1.00	2.19	A	С
ATOM ATOM	1687 1688		PHE		46.721	58.879	19.673	1.00	0.91	A	C
ATOM	1689	CE2		A 737	47.599	58.661	21.882	1.00	2.56	A	C
ATOM	1690	CZ		A 737	47.800	58.738	20.516	1.00	1.43 6.49	A A	c
MOTA	1691	C		A 737	44.005	56.771 55.951	23.333	1.00	6.32	A	ō
ATOM	1692	0		A 737 A 738	44.808 43.795	56.982	24.628	1.00	6.22	A	N
MOTA MOTA	1693 1694	N CA		A 738	44.498	56.275	25.677	1.00	6.20	A	c
ATOM	1695	CB		A 738	45.355	57.266	26.455	1.00	6.44	A	C
ATOM	1696	ÇG		A 738	46.147	56.669	27.606	1.00 1.00	8.72 9.91	A A	Ċ
ATOM	1697	CD		A 738	46.808 47.444	57.738 58.667	28.468 27.945	1.00	9.37	A	ŏ
ATOM	1698 1699	NE2	GLN .	A 738	46.666	57.612	29.796	1.00	9.20	A	N
ATOM ATOM	1700	C	GLN .		43.496	55.608	26.612	1.00	6.57	A	C
ATOM	1701	ō		A 738	9999.0009	999.0009	999.000	1.00	0.00	A A	0
MOTA	1702			A 738	9999.0009		54.095	1.00 1.00	0.00	В	č
ATOM	1703	CB	THR		16.410 16.356	64.698 64.023	52.823	1.00	11.15	В	o
ATOM	1704 1705		THR	B 531 B 531	15.335	65.780	54.147	1.00		В	С
ATOM ATOM	1706	C	THR		18.864	64.287	54.076	1.00	9.19	В	C
ATOM	1707	0	THR	B 531	19.150	63.911	52.942	1.00	9.20 9.74	B B	N O
ATOM	1708	N		B 531	18.022	66.485 65.342	53.369 54.305	1.00	10.21	В	Ċ
ATOM	1709	CA N	THR	B 531 B 532	17.801 19.468	63.820	55.155	1.00	7.92	В	N
ATOM ATOM	1710 1711	CA	LEU		20.491	62.803	55.027	1.00	8.18	В	C
ATOM	1712	СВ		в 532	21.857	63.445	54.782		10.08 11.85	B B	C C
ATOM	1713	CG		B 532	22.989	62.475 63.239	54.431 53.767	1.00	12.62	В	č
ATOM	1714		LEU LEU		24.127 23.459	61.751	55.688	1.00	12.93	В	С
ATOM ATOM	1715 1716	CD2	LEU		20.520	61.935	56.267	1.00	7.59	В	C
ATOM	1717	ŏ	LEU	в 532	20.734	60.730	56.181	1.00	6.51	B B	O N
ATOM	1718	N		B 533	20.305	62.550	57.422 58.654	1.00 1.00	7.14 5.56	В	Ĉ
MOTA	1719	CA		в 533 в 533	20.290 20.100	61.799 62.714	59.865	1.00	2.34	В	C
ATOM ATOM	1720 1721	CB CG1		В 533	20.199	61.925	61.137	1.00	0.89	В	С
ATOM	1722			в 533	21.168	63.777	59.860	1.00	0.44	В	C
ATOM	1723	C		B 533	19.132	60.822	58.541 59.168	1.00	6.57 6.85	B B	0
ATOM	1724	0		B 533	19.148 18.140	59.758 61.164	57.716	1.00	6.99	В	N
ATOM	1725 1726	n Ca		B 534 B 534	16.984	60.284	57.519	1.00	6.87	В	С
MOTA MOTA	1727	CB		B 534	15.873	61.009	56.766	1.00	4.90	В	C
ATOM	1728	OG	SER	B 534	15.270	61.978	57.598	1.00	2.12	B B	0
ATOM	1729	C		B 534	17.347	58.995 57.896	56.780 57.320	1.00	7.24 6.08	В	ŏ
ATOM	1730	0		B 534 B·535	17.177 17.842	59.116	55.551	1.00	7.19	В	N.
ATOM	1731 1732	N CA		В 535	18,221	57.914	54.831	1.00	7.23	В	C
ATOM ATOM	1733	CB		в 535	18.816	58.234	53.452	1.00	7.69	В	C
ATOM	1734	· CG	LEU	B 535	20.061	59.095	53.258	1.00	8.04 7.50	B B	C
MOTA	1735			B 535	20.773	58.693 60.546	51.957 53.224	1.00	6.73	В	č
ATOM	1736	CD2		B 535 B 535	19.656 19.225	57.159	55.698	1.00	7.12	В	č
ATOM ATOM	1737 1738	C O		B 535	19.299	55.930	55.660	1.00	6.71	В	0
ATOM	1739	N	LEU	B 536	19.998	57.899	56.484	1.00	7.30	В	N
MOTA	1740	CA	LEU	B 536	20.942	57.265	57.391	1.00	6.15 2.76	B B	C
MOTA	1741	CB		B 536	21.789	58.292 58.872	58.145 57.571	1.00	0.00	В	Č
ATOM	1742	CG		В 536	23.077			1.00	0.00	В	C
	7717	ימין	THEFT	B 536	23.703	59.740	58.652	1.00	0.00		
ATOM ATOM	1743 1744	CD1	LEU	В 536 В 536	23.709 24.030	57.779	57.159	1.00	0.00	В	С

ATOM	1745	c :	LEU B !	536	20.108	56.496	58.412	1.00	6.88	B B	C
ATOM	1746	0	LEU B	536	20.263	55.287	58.574	1.00	7.30 6.66	В	N
MOTA	1747			537	19.211 18.382	57.203 56.562	59.091 60.099	1.00	7.24	В	C
ATOM	1748			537 537	17.321	57.536	60.636	1.00	7.42	В	C
ATOM ATOM	1749 1750			537	16.561	56.956	61.836	1.00	4.99	B B	C
ATOM	1751	CD	GLU B	537	15.238	57.632	62.131 62.729	1.00	3.13 1.34	В	ŏ
MOTA	1752			537	15.251 14.187	58.728 57.058	61.767	1.00	3.54	В	Ō
ATOM	1753			537 537	17.683	55.273	59.621	1.00	7.55	В	С
ATOM ATOM	1754 1755			537	17.593	54.295	60.376	1.00	7.59	B B	O N
MOTA	1756		VAL B	538	17.201	55.269	58.377 57.831	1.00	6.83 5.38	В	Č
MOTA	1757			538	16.481 15.534	54.117 54.577	56.700	1.00	5.91	В	С
MOTA	1758		VAL B	538 538	14.862	53.378	56.058	1.00	3.94	В	C
ATOM ATOM	1759 1760			538	14.477	55.541	57.270	1.00	5.56	B B	C
ATOM	1761	С		538	17.341	52.941	57.350 57.126	1.00	4.64 2.68	В	ŏ
MOTA	1762	0		538	16.838 18.639	51.846 53.171	57.188	1.00	5.06	В	N
ATOM	1763 1764	N CA		539 539	19.559	52.105	56.785	1.00	5.67	В	C
ATOM ATOM	1765	СВ		539	20.529	52.536	55.646	1.00	6.10 6.78	B B	C C
MOTA	1766	CG2		539	19.744	52.930	54.416 56.111	1.00 1.00	3.64	В	Č
ATOM	1767			539	21.426 22.485	53.682 54.029	55.119	1.00	0.00	В	C
ATOM ATOM	1768 1769	CDI	ILE B	539 539	20.397	51.735	58.006	1.00	5.53	В	C O
ATOM	1770	Ö	ILE B		21.570	51.392	57.899	1.00	6.20 5.03	B B	N
MOTA	1771	N	GLU B		19.779	51.838 51.511	59.173 60.417	1.00	5.17	В	Ċ
MOTA	1772	CA	GLU B		20.441 20.053	52.521	61.495	1.00	6.83	В	C
atom atom	1773 1774	CB CG		540	21.225	53.264	62.103		10.34	B B	C
ATOM	1775	CD	GLU B		21.970	54.107	61.093		11.52 12.12	В	Ö
ATOM	1776	OE1	GLU B		22.905 21.621	54.838 54.034	61.491 59.899		12.58	В	0
ATOM	1777 1778	OE2		540 540	19.981	50.113	60.816	1.00	4.17	В	C
MOTA MOTA	1779	o		540	19.001	49.964	61.542	1.00	3.92	B B	M O
ATOM	1780	N	PRO B		20.687	49.071	60.341 59.725	1.00	3.62 3.05	В	č
ATOM	1781	CD		541	22.029 20.330	49.119 47.694	60.660	1.00	2.38	В	С
MOTA	1782 1783	CA CB	PRO B	541 541	21.687	47.005	60.651	1.00	2.74	В	C
ATOM ATOM	1784	CG	PRO B	541	22.346	47.659	59.491	1.00	2.55 1.31	B B	c
MOTA	1785	С			19.592 19.919	47.576 48.273	61.986 62.943	1.00	0.84	В	ō
ATOM	1786	N O	PRO B		18.595	46.694	62.031	1.00	0.24	В	N
ATOM ATOM	1787 1788	CA	GLU B		17.793	46.501	63.235	1.00	1.23	B B	C
ATOM	1789	CB	GLU B		16.327	46.202	62.859 63.711	1.00	2.38 4.01	В	č
ATOM	1790	CG	GLU B		15.260 13.815	46.947 46.670	63.257	1.00	3.74	В	С
ATOM ATOM	1791 1792	CD OE1			13.541	46.787	62.044	1.00	4.61	В	0
ATOM	1793	OE2	GLU B	542	12.953	46.346	64.109	1.00	2.28 2.07	B B	c
ATOM	1794	C	GLU B		18.322 18.720	45.402 44.335	64.153 63.707	1.00	1.60	В	0
MOTA	1795 1796	N O	GLU B VAL B		18.333	45.709	65.443	1.00	3.47	В	N
ATOM ATOM	1797	CA	VAL B		18.758	44.810	66.506	1.00	3.43	B B	C
ATOM	1798	CB	VAL B		17.682	44.772	67.610 68.249	1.00	2.75 3.84	В	č
ATOM	1799		VAL B		17.530 16.345	46.138 44.374	67.007	1.00	3.15	В	С
ATOM	1800 1801	C	VAL B		19.005	43.374	66.076	1.00	3.09	В	C
MOTA MOTA	1802	ŏ	VAL B	543	18.080	42.696	65,650	1.00	3.18 2.08	B B	O N
ATOM	1803	N	LEU B		20.249 20.575	42.913 41.532	66.182 65.840	1.00	2.37	В	С
ATOM	1804	CA CB	LEU B		22.088	41.310	65.723	1.00	3.93	В	C
MOTA MOTA	1805 1806		LEU B		22.866	41.683	64.454	1.00	5.41	B B	C
MOTA	1807	CD1	LEU B	544	24.257	41.083	64.523 63.225	1.00	4.85 6.58	В	Č
MOTA	1808		LEU B		22.164 20.050	41.155 40.704	66.994	1.00	2.40	В	С
MOTA	1809 1810		LEU B		20.542	40.808	68.118	1.00		В	0
ATOM ATOM	1811		TYR E	3 545	19.031	39.896	66.721	1.00		В.	С И
ATOM	1812	CA	TYR E		18.443	39.056	67.763 67.421			В	č
ATOM	1813		TYR E		16.994 15.969	38.659 .39.309				B B	С
ATOM ATOM	1814 1815	CD1	L TYR E	3 ⁵ 545	15.987	39.099	69.699	1.00		В	C
ATOM	1816	CE	L TYR E	3 545	15.028					B B	c
MOTA	1817	CD	2 TYR E	3 545	14.980					В	С
ATOM	1818		TYR E		14.019 14.050				0.00	В	C
MOTA MOTA	1819 1820		TYR E		13.091	41.106	70.804			B B	O C
MOTA	1821	. С	TYR F	B 545	19.332					В	Ö
MOTA	1822			B 545 B 546	19.282 20.174					В	N
MOTA	1823 1824		-	B 546	21.086		69.151	1.00	4.97	В	C
MOTA MOTA	1825			B 546	22.046		70.272	1.00	5.14	В	С
,	3.3										

	1005	_	ALA B 546	20.298	35.516	69.482	1.00	5.45	В	C
ATOM ATOM	1826 1827		ALA B 546	19.819	34.815	68.580	1.00	5.06	В	0
ATOM	1828		GLY B 547	20.149	35.244	70.772	1.00	5.37	B B	N C
ATOM	1829		GLY B 547	19.432	34.060 33.339	71.190 72.161	1.00	5.08 4.07	В	Č
MOTA	1830	-	GLY B 547 GLY B 547	20.316 21.087	32.474	71.781	1.00	2.80	В	0
ATOM ATOM	1831 1832		TYR B 548	20.214	33.731	73.421	1.00	5.82	В	N
ATOM	1833		TYR B 548	21.013	33.143	74.478	1.00	7.20	B B	C
ATOM	1834		TYR B 548	21.259	34.175	75.574 76.535	1.00	7.73 B.10	В	č
ATOM	1835		TYR B 548	22.370 22.171	33.825 33.910	77.910	1.00	7.45	В	C
ATOM	1836 1837		TYR B 548 TYR B 548	23.206	33.662	78.800	1.00	7.36	В	C
ATOM ATOM	1838		TYR B 548	23.639	33.474	76.073	1.00	7.72	В	C C
ATOM	1839	CE2	TYR B 548	24.681	33.225	76.958	1.00	6.30 6.72	B B	C
ATOM	1840	CZ	TYR B 548	24.454 25.472	33.323 33.093	78.317 79.204	1.00	5.53	В	ō
MOTA	1841	OH	TYR B 548 TYR B 548	20.228	31.973	75.037	1.00	7.93	В	C
ATOM ATOM	1842 1843	C	TYR B 548	19.011	32.070	75.225	1.00	8.67	В	0
ATOM	1844	N	ASP B 549	20.921	30.867	75.290	1.00 1.00	7.52 6.89	B B	N C
MOTA	1845	CA	ASP B 549	20.269 21.308	29.677 28.656	75.813 76.292	1.00	7.66	В	c
ATOM	1846	CB CG	ASP B 549 ASP B 549	22.073	27.999	75.139	1.00	6.01	В	C
ATOM ATOM	1847 1848		ASP B 549	23.125	27.385	75.407	1.00	4.80	В	0
ATOM	1849		ASP B 549	21.623	28.086	73.976	1.00	6.15 6.54	B B	o C
ATOM	1850	С	ASP B 549	19.396	30.113 29.684	76.956 77.067	1.00 1.00	5.87	В	ŏ
ATOM	1851	0	ASP B 549 SER B 550	18.253 19.953	30.986	77.792	1.00	7.16	В	N
ATOM ATOM	1852 1853	n Ca	SER B 550	19.252	31.542	78.957	1.00	8.36	В	C
ATOM	1854	CB	SER B 550	18.098	32.442	78.482	1.00	9.58	B B	C
ATOM	1855	OG	SER B 550	18.452	33.176	77.320 79.887	1.00 1.00	10.64 8.38	В	č
ATOM	1856	C	SER B 550	18.701 17.636	30.439 30.577	80.498	1.00	7.63	В	0
ATOM ATOM	1857 1858	O N	SER B 550 SER B 551	19.445	29.348	79.991	1.00	8.02	В	N
ATOM	1859	CA	SER B 551	19.029	28.227	80.808	1.00	7.30	B B	C C
MOTA	1860	CB	SER B 551	18.385	27.153	79.907 79.197	1.00 1.00	7.81 7.28	В	ŏ
ATOM	1861	OG	SER B 551 SER B 551	17.257 20.230	27.649 27.654	81.573	1.00	6.56	В	С
ATOM	1862 1863	C O	SER B 551	20.089	27.165	82.696	1.00	6.94	В	0
ATOM ATOM	1864	N	VAL B 552	21.405	27.721	80.950	1.00	5.24	B B	N C
ATOM	1865	CA	VAL B 552	22.650	27.231	81.540 80.438	1.00	4.44 3.65	В	č
ATOM	1866	CB	VAL B 552	23.646 24.553	26.778 25.672	80.968	1.00	1.31	В	С
ATOM	1867 1868		VAL B 552 VAL B 552	22.886	26.314	79.203	1.00	2.44	В	C
ATOM ATOM	1869	C	VAL B 552	23.279	28.392	82.318	1.00	4.09	В	C O
ATOM	1870	O	VAL B 552	23.518	29.463	81.745 83.621	1.00 1.00	4.59 3.98	B B	Ŋ
ATOM	1871	N	PRO B 553	23.574 23.745	28.198 26.914	84.323	1.00	3.81	В	С
MOTA	1872 1873	CD CA	PRO B 553 PRO B 553	24.171	29.289	84.398	1.00	4.58	В	C
ATOM ATOM	1874	CB	PRO B 553	24.828	28.564	85.566	1.00	5.21	В	C
MOTA	1875	CG	PRO B 553	23.972	27.358	85.744 83.513	1.00	3.58 5.01	B B	c
ATOM	1876	С	PRO B 553	25.177 25.828	30.014 29.393	82.672	1.00	6.50	В	Ο.
ATOM	1877 1878	N N	PRO B 553 ASP B 554	25.309	31.320	83.692	1.00	5.82	В	N
ATOM ATOM	1879	CA	ASP B 554	26.205	32.083	82.839	1.00	7.79	В	C C
ATOM	1880	CB	ASP B 554	26.000	33.586	83.044		10.98 11.80	B B	c
ATOM	1881	CG	ASP B 554	25.733 26.552	34.316 34.158	81.734 80.803		13.14	В	o
ATOM	1882		ASP B 554 ASP B 554	24.710	35.039	81.639		12.43	В	0
ATOM ATOM	1883 1884	C	ASP B 554	27.675	31.747	82.964	1.00	7.81	В	C
ATOM	1885	0	ASP B 554	28.431	32.417	83.668	1.00	8.13 7.82	B B	O N
ATOM	1886	N	SER B 555	28.069	30.696 30.252	82.257 82.232	1.00	7.61	В	Ċ
MOTA	1887	CA CB	SER B 555 SER B 555	29.448 29.507	28.794	81.782	1.00	5.61	В	С
ATOM ATOM	1888 1889	OG	SER B 555	28.828	28.617	80.555	1.00	2.11	В	0
ATOM	1890	C	SER B 555	30.224	31.156	81.260	1.00	8.63 7.85	B B	C O
MOTA	1891	0	SER B 555	29.946	31.199	80.051 81.820	1.00	8.68	В	N
ATOM	1892	N CA	THR B 556 THR B 556	31.185 32.040	31.888 32.825	81.020	1.00	7.13	В	С
ÁTOM ATOM	1893 1894	CA CB	THR B 556	33.186	33.309	82.011	1.00	6.02	В	C
	r. 1895	OG1	THR B 556	34.346	33.616	81.230	1.00	6.08,	, B B	O C
ATOM	1896	CG2	THR B 556	33.538	32.225	83.030 79.769	1.00 1.00	7.18 6.09	В	c
ATOM	1897	C	THR B 556	32.626 33.458	32.311 32.974	79.160	1.00	6.37	В	0
ATOM	1898	N O	THR B 556 TRP B 557	32.221	31.124	79.335	1.00	4.91	В	N
ATOM ATOM	1899 1900	CA	TRP B 557	32.702	30.603	78.060	1.00	4.54	В	C
ATOM	1901	CB	TRP B 557	33.181	29.139	78.164	1.00	4.26 2.60	B B	C C
MOTA	1902	CG	TRP B 557	32.130	28.109 27.477	78.514 77.614	1.00		В	č
ATOM	1903		TRP B 557	31.217 30.435		78.373	1.00	1.25	В	С
MOTA MOTA	1904 1905		TRP B 557	30.980	27.583	76.240	1.00		В	C
MOTA	1906		TRP B 557	31.874		79.748	1.00	2.55	В	С

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ATTOM	1907	NE1 T	RP B	557	30.858	26.662	79.672	1.00	0.74	B B	C M
	1908	CZ2 T	RP B	557	29.431	25.785	77.800 75.670	1.00 1.00	0.00	В	С
	1909			557	29.976 29.217	26.793 25.908	76.452	1.00	0.00	В	С
MOTA	1910		RP B		31.518	30.699	77.119	1.00	5.06	В	C O
MOTA	1911 1912		RP B		31.673	30.894	75.910	1.00	4.78 5.26	B B	N
MOTA MOTA	1913		RG B		30.331	30.570	77.703 76.951	1.00	4.81	В	C
ATOM	1914	CA A	RG B		29.095	30.652 30.183	77.822	1.00	5.22	В	C
MOTA	1915		RG B		27.922 26.563	30.206	77.123	1.00	6.16	В	C C
ATOM	1916 1917		RG B		25.538	29.316	77.807	1.00	9.34	B B	N
ATOM ATOM	1918		RG B		25.668	27.923	77.391	1.00		В	Ċ
ATOM	1919	CZ A	ARG B	558	26.611	27.089 27.499	77.824 78.698	1.00		В	N
MOTA	1920		ARG B		27.518 26.648	25.838	77.388		18.27	В	N
ATOM	1921		ARG B		28.906	32.102	76.501	1.00	4.38	18 18	C O
atom atom	1922 1923			558	28.494	32.371	75.370	1.00 1.00	3.53 3.91	В	N
ATOM	1924	N J	LLE B	559	29.225	33.042 34.443	77.383 77.021	1.00	3.73	В	С
ATOM	1925			559	29.096 29.361	35.355	78.246	1.00	2.17	В	C
ATOM	1926		ILE B		30.753	35.162	78.771	1.00	2.42	B B	C
MOTA MOTA	1927 1928		ILE B		29.096	36.801	77.863	1.00 1.00	2.54 2.87	В	č
ATOM	1929	CD1	ILE B	559	27.658	37.053 34.739	77.419 75.855	1.00	3.83	В	С
ATOM	1930	-	ILE B		30.059 29.631	34.759	74.704	1.00	5.20	В	0
MOTA	1931		ILE B MET B		31.352	34.825	76.147	1.00	2.87	B B	N C
ATOM ATOM	1932 1933		MET B		32.363	35.063	75.128	1.00	1.24 1.99	В	č
MOTA	1934		MET B	560	33.721	34.619	75.639 76.789	1.00	2.39	В	С
MOTA	1935		MET B		34.211 34.293	35.458 37.166	76.285	1.00	4.27	В	S
ATOM	1936		MET B MET B	560 560	35.496	37.085	74.934	1.00	4.41	B B	C
ATOM ATOM	1937 1938		MET B		32.037	34.311	73.852	1.00	1.16 1.87	В	ŏ
ATOM	1939	0	MET B	560	32.311	34.780	72.750 74.006	1.00	1.13	В	N
ATOM	1940		THR B		31.450 31.076	33.134 32.325	72.853	1.00	0.95	В	C
MOTA	1941		THR B		30.733	30.877	73.302	1.00	0.00	B B	C O
ATOM ATOM	1942 1943		THR B		31.953	30.181	73.595	1.00	0.00 0.00	В	č
ATOM	1944	CG2	THR E	3 561	29.941	30.130 32.969	72.225 72.129	1.00	1.92	В	C
ATOM	1945	C	THR E		29.881 29.908	33.214	70.910	1.00	0.00	В	0
ATOM	1946 1947	И	THR E		28.835		72.889	1.00	3.03	B B	Ŋ
ATOM ATOM	1948	CA	THR E		27.667		72.306 73.366	1.00	4.11 2.50	В	č
ATOM	1949	CB	THR E		26.582 26.275		0.0	1.00		В	0
MOTA	1950		THR E		25.323			1.00		В	C
MOTA	1951 1952		THR I		28.091	35.209	71.706	1.00		B B	Ö
ATOM ATOM	1953	_	THR I	в 562	27.543			1.00		В	N
ATOM	1954		LEU I		29.077 29.585				3.48	В	C
MOTA	1955 1956		LEU I		30.657		72.742			B B	c c
ATOM ATOM	1957			в 563	30.241	38.345				В	č
ATOM	1958		LEU I		31.482					В	C
MOTA	1959			В 563 В 563	29.132 30.175				4.04	В	C
ATOM	1960 1961		LEU	в 563	29.638	37.452	69.446			B B	N O
ATOM ATOM	1962			В 564	31.284	36.220				В	Ĉ
ATOM	1963	CA	ASN	B 564	31.920 32.91					В	C
MOTA	1964		ASN	В 564 В 564	33.63			1.00		В	С 0
MOTA	1965 1966		ASN	B 564	33.19	33.488				B B	N
ATOM ATOM	1967		ASN	В 564	34.75					В	C
ATOM	1968			B 564	30.85 31.00					В	0
MOTA	1969			В 564 В 565	29.77		6 68.454	1.0	0 5.95	В	N C
MOTA	1970 1971			B 565	28.66	2 34.53				B B	Č
MOTA MOTA	1972		MET	в 565	27.59					В	С
ATOM	197	3 CG		В 565	28.05 27.53					В	S
ATOM	197			B 565	26.60		4 69.24	5 1.0	0 5.15	В	C
MOTA	197: 197			В 565 В 565	28.03	4 35.78	866.99	3 1.0	0 6.14	B B	Ċ
ATOM ATOM	197		MET	B 565	27.85	4 35.89			0 · 8.29 0 · 5.06	В	N
MOTA	197	8 N	LEU	B 566	27.68					В	С
MOTA	197			В 566 В 566	27.08 26.60		2 68.59	2 1.0	0 4.31	В	C
MOTA	198 198			B 566	25.65	6 40.01	8 68.30	9 1.0		B B	c
MOTA MOTA	198	2 CD1	LEU	B 566	24.41					В	č
ATOM	198		2 LEU	B 566	25.26					В	С
MOTA	198		TEO	в 566 в 566	28.22 28.07		6 66.17	7 1.0	0 5.32	В	и О
ATOM	198			B 567	29.36	37.99	8 66.63			B B	
MOTA MOTA			GLY	В 567	30.53	38.56	65.97	5 1.0	70 1.03		-
ALON											

					30.265	39.031	64.564	1.00	1.02	В		С
ATOM			GLY I		29.661	40.063	64.345	1.00	0.00	В		0
ATOM			GLY I		30.740	38.260	63.602	1.00	1.65	В		N
ATOM				B 568	30.573	38.623	62.213	1.00	2.01	В		C
ATOM				B 568	29.151	38.957	61.B32	1.00	2.92	В		C
ATOM				B 568	28.912	39.563	60.785	1.00	4.64	В		Ŋ
ATOM ATOM				в 569	28.199	38.561	62.667	1.00	3.12	B B		C
ATOM				в 569	26.799	38.840	62.364	1.00	4.28	В		č
ATOM			ARG		25.874	38.031	63.292	1.00	4.60 6.54	В		č
ATOM			ARG		24.388	38.008	62.879	1.00	6.72	В		č
ATOM			ARG :	в 569	23.552	37.402	63.995	1.00	4.80	В		N
ATOM		NE		в 569	22.114	37.561	63.805 64.780	1.00	5.50	В		С
ATOM		CZ	ARG		21.226	37.388	65.993	1.00	5.06	В		N
MOTA			ARG		21.637	37.050 37.568	64.555	1.00	4.89	В		N
ATOM				B 569	19.933 26.570	40.347	62.525	1.00	3.95	В		С
ATOM	2003	С		B 569	25.633	40.915	61.973	1.00	1.68	В		0
ATOM	2004	0		В 569 В 570	27.440	40.980	63.299	1.00	3.79	В		N
ATOM	2005	N		B 570	27.368	42.402	63.506	1.00	2.90	В		C
ATOM	2006 2007	CA CB		B 570	27.901	42.768	64.880	1.00	2.56	В		C
ATOM	2007	CG		B 570	27.054	42.267	66.003	1.00	4.22	В		C C
ATOM ATOM	2009	CD		B 570	27.475	42.822	67.343	1.00	4.22	B B		o
ATOM	2010		GLN		27.542	44.036	67.527	1.00	4.93	. B		N
ATOM	2011		GLN		27.760	41.936	68.291	1.00	4.56 2.97	В		Č
ATOM	2012	С		B 570	28.250	43.000	62.429	1.00	3.80	В		ŏ
ATOM	2013	0	GLN	в 570	28.100	44.163	62.063	1.00	3.92	Ē		N
ATOM	2014	N	VAL		29.168	42.186	61.919 60.868	1.00	4.74	В		С
ATOM	2015	CA		B 571	30.093	42.612 41.643	60.740	1.00	5.05	В		С
MOTA	2016	CB	VAL		31.305	41.954	59.489	1.00	5.55	Е	j	С
ATOM	2017		VAL		32.082 32.223	41.775	61.943	1.00	5.45	E	ļ	С
MOTA	2018			B 571	29.338	42.622	59.551	1.00	4.96	P		C
MOTA	2019	C	VAL	B 571 B 571	29.234	43.640	58.867	1.00	4.85	E		0
ATOM	2020	O N		B 572	28.809	41.466	59.201	1.00	3.73	F		N
MOTA MOTA	2021 2022	CA		B 572	28.049	41.331	57.986	1.00	2.14	E		C
ATOM	2023	CB		B 572	27.394	39.944	57.962	1.00	0.81	E		c
ATOM	2024			B 572	28.461	38.877	57.880	1.00	0.06	I		č
ATOM	2025			B 572	26.635	39.712	59.260	1.00	0.42 0.78	Ē		č
ATOM	2026	CD1	ILE	B 572	26.086	38.306	59.405	1.00 1.00	1.72	Ī		č
ATOM	2027	С		B 572	27.002	42.458	57.906 56.863	1.00	2.78	I		0
ATOM	2028	0		B 572	26,860	43.096	59.010	1.00	0.54	J	3	N
ATOM	2029	N		В 573	26.296	42.712 43.762	59.058	1.00	0.88	I	3	С
ATOM	2030	CA		B 573	25.275 24.590	43.777	60.394	1.00	2.06	3	3	С
ATOM	2031	CB		B 573	25.921	45.093	58.830	1.00	2.33		3	С
ATOM	2032	C		В 573 В 573	25.596		57.876	1.00	3.65		В	0
MOTA	2033 2034	И		B 574	26.829		59.734	1.00	3.89		В	И
ATOM	2034	CA		B 574	27.568	46.693	59.646	1.00	4.51		В	C
ATOM ATOM	2036	CB		B 574	28.787		60.550	1.00	3.04		B B	Ċ
ATOM	2037	Ċ		B 574	27.992		58.196	1.00	4.41		В	Õ
ATOM	2038	0	ALA		27.498		57.550	1.00	3.54 3.88		В	Ň
ATOM	2039	N		B 575	28.889		57.684	1.00 1.00	4.05		В	C
ATOM	2040	CA		B 575	29.371		56.313 55.827	1.00	2.26		В	С
ATOM	2041	CB		B 575	30.049		54.455	1.00	0.00		В	С
ATOM	2042			B 575	30.640 31.121		56.800	1.00	1.35		В	С
ATOM	2043	CG2		B 575	28.315		55.272	1.00	5.72		В	С
MOTA	2044	C		B 575	28.495		54.529	1.00	6.30		В	0
ATOM	2045	0		B 575 B 576	27.220		55.204	1.00	6.83		В	N
ATOM	2046 2047	N CA		B 576	26.176		54.215	1.00	6.98		В	c
ATOM	2048	CB		B 576	25.070	45.089		1.00	8.29		В	C C
ATOM ATOM	2049	CG		В 576	24.060	45.198		1.00	9.99		B B	č
ATOM	2050	CD		B 576	22.645	44.774		1.00	10.63		В	č
ATOM	2051	CE		В 576	21.998		54.458	1.00	10.34 9.62		В	N
ATOM	2052	NZ		B 576	21.917			1.00	5.53		В	С
ATOM	2053	С		B 576	25.565						В	0
ATOM	2054	0		B 576	24.880						В	N
ATOM	2055	N		B 577	25.786 25.288						В	С
ATOM	2056	CA		B 577	25.286						В	С
ATOM	2057	CB		B 577	25.259						В	C
ATOM	2058	CC		В 577 В 577	26.432						В	C
MOTA	2059	CD.	יםיף כ	B 577	26.080		59.016	1.00			В	C
MOTA	2060 2061			B 577	27.752		58.798				В	C
MOTA	2062			B 577	24.262	51.756	58.180				В	C N
MOTA MOTA	2063			B 577	24.748	B 52.912					В	C
ATOM	2064			B 577	27.004	4 53.618					B B	c
ATOM	2065			B 577	28.66		59.360				В	č
ATOM	2066		2 TRI	P 577	28.28						В	č
ATOM	2067	С		B 577	26.33						В	ō
ATOM	2068	0	TRI	P B 577	26.01	3 51.340	55.010	, 1.00	. 1.07		_	

					07 500	49.936	55.800	1.00	2.03	В	N	
MOTA	2069	N	ALA I		27.589	50.737	55.402	1.00	2.60	В	С	
ATOM	2070	CA		B 578	28.736	50.009	55.778	1.00	1.59	В	C	
MOTA	2071	ÇВ	ALA 1		30.005	51.072	53.906	1.00	3.77	В	С	
MOTA	2072	Ç		B 578	28.742	51.965	53.476	1.00	1.91	В	0	
ATOM	2073	0		B 578	29.472	50.366	53.124	1.00	5.03	В	N	
ATOM	2074	N		В 579	27.922	50.593	51.675	1.00	5.31	В	С	
ATOM	2075	CA		В 579	27.834	49.262	50.936	1.00	3.86	В	С	
MOTA	2076	CB		В 579	27.680		50.650	1.00	5.98	B	С	
MOTA	2077	CG		в 579	28.997	48.566	50.146	1.00	7.52	В	С	
ATOM	2078	CD		в 579	28.788	47.148	51.239	1.00	8.30	В	С	
ATOM	2079	CE		в 579	28.199	46.251		1.00	8.68	В	N	
ATOM	2080	NZ		в 579	29.106	46.143	52.421	1.00	4.99	В	С	
ATOM	2081	С		B 579	26.707	51.534	51.255		5.31	В	0	
ATOM	2082	0	LYS	B 579	26.700	52.049	50.135	1.00 1.00	4.36	В	N	
ATOM	2083	N	ALA	B 580	25.756	51.758	52.152		4.35	B	Ċ	
ATOM	2084	CA		в 580	24.643	52.638	51.862	1.00		В	č	
ATOM	2085	CB		в 580	23.398	52.083	52.483	1.00	5.65 4.33	В	Č	
ATOM	2086	С	ALA	в 580	24.923	54.052	52.382	1.00		В	ŏ	
MOTA	2087	ō	ALA	в 580	24.046	54.914	52.374	1.00	5.33	В	N	
ATOM	2088	N		B 581	26.149	54.278	52.851	1.00	3.84	В	Ċ	
MOTA	2089	CA		B 581	26.572	55.585	53.341	1.00	3.04	В	č	
ATOM	2090	CB		B 581	27.966	55.530	53.999	1.00	0.00		č	
ATOM	2091			B 581	28.272	56.839	54.669	1.00	0.00	В	č	
	2092			B 581	28.043	54.385	55.006	1.00	0.00	В	C	
MOTA	2093			B 581	26.965	54.404	56.055	1.00	0.00	В	č	
ATOM	2094	C		B 581	26.705	56.403	52.070	1.00	3.79	В	ŏ	
MOTA	2095	ŏ		B 581	27.506	56.070	51.202	1.00	3.83	В		
MOTA	2096	N		B 582	25.904	57.463	51.923	1.00	3.55	В	N C	
MOTA	2097	CD		B 582	24.840	57.943	52.818	1.00	3.41	В		
ATOM	2098	CA		B 582	25.975	58.298	50.728	1.00	3.83	В	C	
ATOM		CB		B 582	25.379	59.606	51.212	1.00	3.68	В	C	
MOTA	2099	CG		B 582	24.229	59.105	52.024	1.00	3.46	В	C	
MOTA	2100		DDO	В 582	27.380	58.444	50.166	1.00	3.53	В	C	
MOTA	2101	C	DDO	B 582	28.297	58.926	50.835	1.00	1.92	В	0	
ATOM	2102	Ŋ		B 583	27.539	57.999	48.928	1.00	3.25	В	N	
ATOM	2103			B 583	28.828	58.084	48.276	1.00	4.67	В	C	
MOTA	2104	CA		в 583	29.856	57.058	48.713	1.00	5.57	В	C	
ATOM	2105	c		B 583	31.038	57.240	48.434	1.00	5.53	В	0	
MOTA	2106	0		B 584	29.443	55.987	49.389	1.00	6.66	В	N	
ATOM	2107	N		B 584	30.424	54.992	49.795	1.00		В	C	
ATOM	2108	CA		B 584	29.883	54.043	50.871	1.00		В	C	
MOTA	2109	CB		В 584	30.975	53.337	51.657	1.00		В	C	
MOTA	2110	CG		B 584	31.735	54.032	52.610	1.00		В	C	
MOTA	2111			B 584	31.281	51.997	51.409	1.00		В	C	
MOTA	2112			B 584	32.788	53.398	53.301	1.00		В	C	
ATOM	2113	(E)	J DUE	в 584	32.327	51.362		1.00	6.56	В	C	
ATOM	2114				33.082			1.00	6.03	В	C	
MOTA	2115			B 584	30.846			1.00	8.32	В	С	
MOTA	2116			B 584	32.039			1.00	9.53	В	0	
MOTA	2117	0		B 584	29.883			1.00	8.64	В	N	
MOTA	2118			B 585	30.221			1.00	9.15	В	С	
MOTA	2119			B 585	20 000			1.00	11.66	В	С	
MOTA	2120			B 585	29.340			1.00	12.57	В	С	
ATOM	2121			B 585	28.101			1.00	13.14	В	С	
ATOM	2122			B 585	28.427			1.00	11.64	В	N	
MOTA	2123			В 585	27.545			1.00	11.86	В	С	
ATOM	2124			B 585	26.278			1.00	11.85	В	N	
ATOM	2125		L ARG	B 585	27.928			1.00	10.85	В	N	
MOTA	2126			В 585 В 585	31.171			1.00	8.56	В	C	
ATOM	2127			B 585	32.071			1.00	9.94	В	0	
MOTA	2128				30.931			1.00	7.85	В	N	
ATOM	2129			В 586	31.732				7.35	В	С	
ATOM	2130			B 586	31.336				7.83	В	C	
ATOM	2131			B 586	29.975				7.05	В	Ç	
ATOM	2132	C	ASN	B 586	29.909				6.99	В	0	
ATOM	2133	O	OI ASN	B 586	28.891	57.300			7.50	В	N	
ATOM	2134			В 586	33.233					В	С	
ATOM	2135			B 586	34.055					• в	0	
ATOM	2136			В 586	33.585					В	N	
MOTA	2137			J B 587	34.979				3,96	В	_	
atom	2138		1.	J B 587	35.186				2.16	В	Ċ	
MOTA	2139			р В 587		·				В	C	
MOTA	2140) C	5 LEU	B 587	35.207					В	С	
ATOM	2141	L CI	DI LEU	B 587	35.482					В	С	
MOTA	2142			J B 587	36.26					В	С	
MOTA	2143			J B 587	35.488					В	0	
ATOM	214			J B 587	34.85					В	N	
MOTA	214			B 588	36.642					В	С	
MOTA	214			S B 588	37.34					В	C	
MOTA	214			S B 588	38.82				0 9.78	В	С	
ATOM		в с	G HI	S B 588	39.61				0 10.15	В	C	
ATOM		9 C	D2 HI	S B 588	39.28	, 21.14	_ 33.30(
D. 0												

ATOM 2220 CA GLN B 597 40.198 46.492 57.996 1.00 0.00 B C ATOM 2221 CB GLN B 597 49.923 46.078 56.563 1.00 0.00 B C ATOM 2223 CD GLN B 597 41.148 45.542 55.855 1.00 0.00 B C ATOM 2224 OE1 GLN B 597 41.175 45.458 54.632 1.00 0.27 B O ATOM 2225 NE2 GLN B 597 42.169 45.171 56.621 1.00 0.83 B N ATOM 2226 C GLN B 597 42.169 45.171 56.621 1.00 0.84 B C ATOM 2227 O GLN B 597 40.029 47.551 60.804 1.00 0.26 B O ATOM 2227 O GLN B 597 39.426 47.982 59.827 1.00 0.84 B C ATOM 2227 O GLN B 597 39.426 47.982 59.827 1.00 0.84 B C ATOM 2227 O GLN B 597 39.426 67.982 59.827 1.00 0.26 B O ATOM 2228 N TYR B 598 39.120 49.270 59.657 1.00 2.28 B N TYR B 598 39.120 49.270 59.657 1.00 1.69 B C									_	
ATOMS 2151 CEL HELS B 588 41-392 CO.736 42.670 1.00 10.23 B C ATOM 2153 C HIS B 588 47-392 CO.736 42.670 1.00 10.23 B C ATOM 2153 C HIS B 588 47-193 S1.655 51.552 1.00 5.17 B C C ATOM 2153 C HIS B 589 37-183 S1.693 51.6		2150 ND	HTS B 588							
MATCH 1512 NEZ RIS 588 371,300 51,655 45,962 .00 5.17 B C ARCON 2154 C RIS B 588 371,300 51,655 45,962 .00 5.17 B C ARCON 2154 C RIS B 589 371,062 50,439 45,439 1.00 3.01 B C C ARCON 2155 C RIS B 589 36,698 47,268 45,439 1.00 3.01 B C C ARCON 2157 C B 593 36,698 47,268 47,268 47,574 1.00 1.75 B C C ARCON 2159 C LEU B 589 36,698 47,268 47,574 1.00 1.75 B C C LEU B 589 36,698 47,268 47,574 1.00 1.75 B C ARCON 2159 C LEU B 589 34,424 47,589 45,574 1.00 1.75 B C ARCON 2159 C LEU B 589 37,955 48,874 47,574 45,574 1.00 1.75 B C ARCON 2161 C LEU B 589 37,955 48,874 46,714 1.00 1.75 B C ARCON 2163 R ARS B 590 37,955 48,874 46,714 1.00 1.75 B C ARCON 2163 R ARS B 590 40,500 40			HIS B 588	42.00.						N
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ATOM 2212 CA LEU B 596 35.292 47.912 56.056 1.00 0.00 B C ATOM 2214 CG LEU B 596 33.949 48.554 55.731 1.00 0.00 B C ATOM 2215 CD1 LEU B 596 32.963 48.116 54.388 1.00 0.00 B C ATOM 2216 CD2 LEU B 596 32.963 48.196 56.804 1.00 0.00 B C ATOM 2217 C LEU B 596 36.851 47.943 58.011 1.00 0.00 B C ATOM 2217 C LEU B 596 36.851 47.943 58.011 1.00 0.00 B C ATOM 2219 N GLN B 597 38.154 47.819 57.807 1.000 0.00 B N ATOM 2219 N GLN B 597 38.154 47.819 57.807 1.000 0.00 B C ATOM 2219 CA GLN B 597 40.198 46.492 57.996 1.00 0.00 B C ATOM 2221 CB GLN B 597 40.198 46.492 57.996 1.00 0.00 B C ATOM 2221 CB GLN B 597 40.198 46.492 57.996 1.00 0.00 B C ATOM 2221 CB GLN B 597 40.198 46.492 57.996 1.00 0.00 B C ATOM 2222 CG GLN B 597 39.923 46.078 56.563 1.00 0.00 B C ATOM 2223 CD GLN B 597 41.148 45.542 55.855 1.00 0.00 B C ATOM 2224 OE1 GLN B 597 41.148 45.542 55.855 1.00 0.27 B OATOM 2224 OE1 GLN B 597 42.169 45.171 56.621 1.00 0.83 B N ATOM 2225 NE2 GLN B 597 39.426 47.982 59.827 1.00 0.84 B C ATOM 2227 O GLN B 597 39.426 47.982 59.827 1.00 0.84 B C ATOM 2228 N TYR B 598 39.497 50.311 60.615 1.00 1.69 B C ATOM 2228 N TYR B 598 39.497 50.311 60.615 1.00 1.69 B C ATOM 2229 CA TYR B 598 39.497 50.311 60.615 1.00 1.69 B C ATOM 2229 CA TYR B 598 39.497 50.311 60.615 1.00 1.69 B C			LEU B 596	36.964	49.700	56.296				
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ATOM 2214 CG LEU B 596 33.474 48.116 54.388 1.00 0.00 B C ATOM 2216 CD2 LEU B 596 32.963 48.196 56.804 1.00 0.00 B C ATOM 2217 C LEU B 596 36.881 47.943 58.911 1.00 0.00 B C ATOM 2219 N GLN B 597 38.154 47.819 57.807 1.00 0.00 B N ATOM 2219 N GLN B 597 38.154 47.819 57.807 1.00 0.00 B N ATOM 2219 CA GLN B 597 40.198 46.492 57.996 1.00 0.00 B C ATOM 2221 CB GLN B 597 40.198 46.492 57.996 1.00 0.00 B C ATOM 2222 CG GLN B 597 40.198 46.492 57.996 1.00 0.00 B C ATOM 2223 CD GLN B 597 41.148 45.542 55.855 1.00 0.00 B C ATOM 2224 OE1 GLN B 597 41.148 45.542 55.855 1.00 0.00 B C ATOM 2224 OE1 GLN B 597 41.148 45.542 55.855 1.00 0.00 B C ATOM 2225 NE2 GLN B 597 42.169 45.171 56.621 1.00 0.83 B N ATOM 2226 C GLN B 597 39.426 47.982 59.827 1.00 0.84 B C ATOM 2227 O GLN B 597 39.426 47.982 59.827 1.00 0.84 B C ATOM 2227 O GLN B 597 39.426 47.982 59.827 1.00 0.84 B C ATOM 2227 O GLN B 597 39.426 47.982 59.827 1.00 0.84 B C ATOM 2228 N TYR B 598 39.497 50.311 60.615 1.00 1.69 B C ATOM 2229 CA TYR B 598 39.497 50.311 60.615 1.00 1.69 B C ATOM 2229 CA TYR B 598 39.497 50.311 60.615 1.00 1.69 B C		2213 CF	B LEU B 596					0.00		
ATOM 2216 CD2 LEU B 596 32.963 48.196 56.804 1.00 0.00 B C ATOM 2217 C LEU B 596 36.8851 47.943 58.911 1.00 0.00 B O ATOM 2218 O LEU B 596 36.883 47.424 58.956 1.00 0.00 B O ATOM 2219 N GLN B 597 38.154 47.819 57.807 1.00 0.00 B O ATOM 2220 CA GLN B 597 40.198 46.492 57.996 1.00 0.00 B C ATOM 2221 CB GLN B 597 40.198 46.492 57.996 1.00 0.00 B C ATOM 2222 CG GLN B 597 39.923 46.078 56.563 1.00 0.00 B C ATOM 2223 CD GLN B 597 41.148 45.542 55.855 1.00 0.00 B C ATOM 2224 OE1 GLN B 597 41.148 45.542 55.855 1.00 0.00 B C ATOM 2224 OE1 GLN B 597 41.148 45.545 54.632 1.00 0.27 B N ATOM 2224 OE1 GLN B 597 42.169 45.171 56.621 1.00 0.83 B N ATOM 2225 NE2 GLN B 597 39.426 47.982 59.827 1.00 0.84 B C ATOM 2227 O GLN B 597 39.426 47.982 59.827 1.00 0.84 B C ATOM 2227 O GLN B 597 40.029 47.551 60.804 1.00 0.26 B N ATOM 2228 N TYR B 598 39.497 50.311 60.615 1.00 1.69 B C ATOM 2229 CA TYR B 598 39.497 50.311 60.615 1.00 1.69 B C			3 LEU B 596				3 1.00			
ATOM 2217 C LEU B 596 36.831 47.424 58.956 1.00 0.00 B O ATOM 2218 O LEU B 596 36.831 47.424 58.956 1.00 0.00 B N ATOM 2219 N GLN B 597 38.154 47.819 57.807 1.00 0.00 B C ATOM 2221 CB GLN B 597 40.198 46.492 57.996 1.00 0.00 B C ATOM 2221 CB GLN B 597 40.198 46.492 57.996 1.00 0.00 B C ATOM 2222 CG GLN B 597 39.923 46.078 56.563 1.00 0.00 B C ATOM 2223 CD GLN B 597 41.148 45.542 55.855 1.00 0.00 B C ATOM 2224 OE1 GLN B 597 41.148 45.542 55.855 1.00 0.27 B O ATOM 2224 OE1 GLN B 597 42.169 45.171 56.621 1.00 0.83 B N ATOM 2225 NE2 GLN B 597 42.169 45.171 56.621 1.00 0.83 B N ATOM 2226 C GLN B 597 39.426 47.982 59.827 1.00 0.84 B C ATOM 2227 O GLN B 597 40.029 47.551 60.804 1.00 0.26 B O ATOM 2227 O GLN B 597 40.029 47.551 60.804 1.00 0.26 B O ATOM 2228 N TYR B 598 39.497 50.311 60.615 1.00 1.69 B C ATOM 2229 CA TYR B 598 39.497 50.311 60.615 1.00 1.69 B C			12 TEU B 596	32.96	3 48.19					
ATOM 2218 O LEU B 596 36.283 47.242 57.807 1.00 0.00 B N ATOM 2219 N GLN B 597 38.976 47.046 58.721 17.00 0.00 B C ATOM 2221 CB GLN B 597 40.198 46.492 57.996 1.00 0.00 B C ATOM 2222 CG GLN B 597 41.148 45.542 55.855 1.00 0.00 B C ATOM 2223 CD GLN B 597 41.148 45.542 55.855 1.00 0.27 B O ATOM 2224 OE1 GLN B 597 41.175 45.458 54.632 1.00 0.27 B O ATOM 2225 NE2 GLN B 597 42.169 45.171 56.621 1.00 0.83 B N ATOM 2225 NE2 GLN B 597 42.169 45.171 56.621 1.00 0.83 B N ATOM 2226 C GLN B 597 42.169 45.171 56.621 1.00 0.84 B C ATOM 2227 O GLN B 597 40.029 47.551 60.804 1.00 0.26 B N ATOM 2228 N TYR B 598 39.426 47.982 59.827 1.00 0.26 B N ATOM 2228 N TYR B 598 39.497 50.311 60.615 1.00 1.69 B C ATOM 2229 CA TYR B 598 39.497 50.311 60.615 1.00 1.69 B C			LEU B 596	36.85						0
ATOM 2219 N GLN B 597 38.976 47.046 58.721 T.00 0.00 B C ATOM 2221 CB GLN B 597 40.198 46.492 57.996 1.00 0.00 B C ATOM 2222 CG GLN B 597 41.148 45.542 55.855 1.00 0.00 B C ATOM 2224 OE1 GLN B 597 41.175 45.458 54.632 1.00 0.27 B O ATOM 2225 NE2 GLN B 597 42.169 45.171 56.621 1.00 0.83 B N ATOM 2225 NE2 GLN B 597 42.169 45.171 56.621 1.00 0.83 B N ATOM 2225 NE2 GLN B 597 42.169 45.171 56.621 1.00 0.84 B C ATOM 2227 O GLN B 597 40.029 47.551 60.804 1.00 0.26 B N ATOM 2228 N TYR B 598 39.426 47.982 59.827 1.00 0.28 B N ATOM 2228 N TYR B 598 39.497 50.311 60.615 1.00 1.69 B C ATOM 2229 CA TYR B 598 39.497 50.311 60.615 1.00 1.69 B C ATOM 2229 CA TYR B 598 39.497 50.311 60.615 1.00 1.69 B C			LEU B 596							
ATOM 2220 CA GLN B 597 40.198 46.492 57.996 1.00 0.00 B C ATOM 2221 CB GLN B 597 41.148 45.542 55.855 1.00 0.00 B C ATOM 2224 OE1 GLN B 597 41.175 45.458 54.632 1.00 0.27 B O ATOM 2225 NE2 GLN B 597 42.169 45.171 56.621 1.00 0.83 B N ATOM 2225 NE2 GLN B 597 42.169 45.171 56.621 1.00 0.84 B C ATOM 2227 O GLN B 597 40.029 47.551 60.804 1.00 0.26 B ATOM 2228 N TYR B 598 39.426 47.982 59.827 1.00 0.26 B N ATOM 2228 N TYR B 598 39.497 50.311 60.615 1.00 1.69 B C ATOM 2229 CA TYR B 598 39.497 50.311 60.615 1.00 1.69 B C	/ ATO	4 2219 N	GLN B 59% 50				1 1.00	0.00		
ATOM 2222 CG GLN B 597 39.923 46.078 56.563 1.00 0.00 B C ATOM 2223 CD GLN B 597 41.148 45.542 55.855 1.00 0.00 C7 B O ATOM 2224 OE1 GLN B 597 41.175 45.458 54.632 1.00 0.27 B O ATOM 2225 NE2 GLN B 597 42.169 45.171 56.621 1.00 0.83 B N ATOM 2225 C GLN B 597 42.169 45.171 56.621 1.00 0.84 B C ATOM 2227 O GLN B 597 40.029 47.551 60.804 1.00 0.26 B O ATOM 2228 N TYR B 598 39.426 47.982 59.827 1.00 0.26 B N ATOM 2228 N TYR B 598 39.497 50.311 60.615 1.00 1.69 B C ATOM 2229 CA TYR B 598 39.497 50.311 60.615 1.00 1.69 B C ATOM 2229 CA TYR B 598 39.497 50.311 60.615 1.00 0.89 B C		• ===:			8 46.49	2 57.99	·			
ATOM 2223 CD GLN B 597 41.148 45.542 53.030 1.00 0.27 B O ATOM 2224 OE1 GLN B 597 41.175 45.458 54.632 1.00 0.27 B N ATOM 2225 NE2 GLN B 597 42.169 45.171 56.621 1.00 0.83 B N ATOM 2226 C GLN B 597 40.029 47.551 60.804 1.00 0.26 B O ATOM 2227 O GLN B 597 40.029 47.551 60.804 1.00 0.26 B N ATOM 2228 N TYR B 598 39.426 49.270 59.657 1.00 2.28 B N ATOM 2228 N TYR B 598 39.497 50.311 60.615 1.00 1.69 B C ATOM 2229 CA TYR B 598 39.497 50.311 60.615 1.00 1.69 B C			G GLN B 597	39.92	3 46.07		^ ^			C
ATOM 2224 OE1 GLN B 597 41.173 43.131 56.621 1.00 0.83 B N ATOM 2225 NE2 GLN B 597 42.169 45.171 56.621 1.00 0.84 B C ATOM 2226 C GLN B 597 40.029 47.551 60.804 1.00 0.26 B O ATOM 2227 O GLN B 597 40.029 47.551 60.804 1.00 0.26 B N ATOM 2228 N TYR B 598 39.120 49.270 59.657 1.00 2.28 B N ATOM 2229 CA TYR B 598 39.497 50.311 60.615 1.00 1.69 B C ATOM 2229 CA TYR B 598 40.023 51.568 59.904 1.00 0.89 B C		M 2223 C	D GLN B 597							
ATOM 2225 NE2 GLN B 597 39.426 47.982 59.827 1.00 0.84 B C ATOM 2226 C GLN B 597 40.029 47.551 60.804 1.00 0.26 B O ATOM 2227 O GLN B 597 40.029 47.551 60.804 1.00 0.26 B N ATOM 2228 N TYR B 598 39.427 50.311 60.615 1.00 1.69 B C ATOM 2229 CA TYR B 598 40.023 51.568 59.904 1.00 0.89 B C		M 2224 O	E1 GLN B 597				1 1.00	0.83		
ATOM 2227 O GLN B 597 40.029 47.551 60.804 1.00 0.20 B N ATOM 2227 O GLN B 598 39.120 49.270 59.657 1.00 2.28 B N ATOM 2228 N TYR B 598 39.497 50.311 60.615 1.00 1.69 B C ATOM 2229 CA TYR B 598 49.023 51.568 59.904 1.00 0.89 B C					6 47.98	2 59.82	7 1.00			
ATOM 2228 N TYR B 598 39.120 49.270 59.557 1.00 2.00 B C ATOM 2229 CA TYR B 598 39.497 50.311 60.615 1.00 1.69 B C ATOM 2229 CA TYR B 598 40.023 51.568 59.904 1.00 0.89 B C				40.02	9 47.55					N
ATOM 2229 CA TYR B 598 39.497 50.511 50.521			TYR B 598							
	ATO	M 2229 C						00	В	С
	OTA	M 2230 C	,D 11K D 350							

ATOM	2231	CG	TYR B	598	41.431	51.442	59.379		0.31	В	C
ATOM	2232		TYR B		42.385	50.740	60.097	1.00	1.10 2.81	B B	c
ATOM	2233	CE1		598	43.677	50.588 52.004	59.616 58.156	1.00	0.59	В	č
MOTA	2234			598	41.804 43.105	51.859	57.662	1.00	1.23	В	С
ATOM	2235		TYR B	598	44.035	51.145	58.405	1.00	1.88	В	C
MOTA	2236		TIK B		45.327	50.968	57.973	1.00	2.15	В	0
MOTA MOTA	2237 2238		TYR B		38.377	50.747	61.515	1.00	1.61	B B	С 0
ATOM	2239		TYR B		38.623	51.163	62.635	1.00	1.98 1.16	В	N
MOTA	2240	N	SER B		37.146	50.674 51.116	61.033 61.856	1.00	2.83	В	C
ATOM	2241	CA	SER B		36.035 35.127	52.092	61.084	1.00	4.32	В	С
MOTA	2242	CB	SER B		34.697	51.588	59.833	1.00	3.44	В	0
MOTA MOTA	2243 2244	OG C	SER B		35.196	50.023	62.451	1.00	4.52	В	C
ATOM	2245	ŏ	SER B		34.324	50.300	63.268	1.00	4.40	B B	O N
ATOM	2246	N	TRP B		35.443	48.780	62.073 62.635	1.00	6.24 6.32	В	Ċ
ATOM	2247	CA	TRP B		34.613	47.743 46.339	62.240	1.00	7.27	В	С
ATOM	2248	CB		600 600	35.102 36.458	45.987	62.660	1.00	5.88	В	C
MOTA	2249 2250	CG CD2	TRP B		36.811	44.996	63.619	1.00	7.07	В	c
ATOM ATOM	2251	CE2	TRP B		38.217	44.960	63.683	1.00	7.93	B B	C
MOTA	2252	CE3	TRP B	600	36.075	44.128	64.430	1.00	8.44 6.78	В	č
ATOM	2253		TRP B		37.621	46.507 45.895	62.193 62.801	1.00	7.75	В	N
MOTA	2254	NE1	TRP B		38.690 38.905	44.087	64.534	1.00	7.05	В	С
MOTA	2255 2256	CZ2 CZ3	TRP B		36.761	43.257	65.276	1.00	8.68	В	C
MOTA MOTA	2257	CH2	TRP B		38.160	43.246	65.319	1.00	7.49	B B	C C
ATOM	2258	c		600	34.542	47.925	64.146	1.00 1.00	5.61 5.39	В	ŏ
ATOM	2259	0	TRP B		33.509	48.348	64.666 64.858	1.00	2.99	B	N
MOTA	2260	N		601	35.627 35.587	47.657 47.824	66.304	1.00	1.29	В	С
ATOM	2261	CA		601 601	36.930	47.461	66.925	1.00	1.89	В	C
MOTA	2262 2263	CB CG	MET B		36.902	46.210	67.778	1.00	0.00	В	C S
MOTA ATOM	2264	SD	MET B		36.169	46.459	69.382	1.00	0.00 0.00	B	Č
ATOM	2265	CE	MET E		34.471	46.044	69.045 66.726	1.00 1.00	1.02	В	č
MOTA	2266	С	MET E		35.186 35.027	49.236 49.503	67.909	1.00	1.15	В	0
ATOM	2267	0	MET E		35.027	50.147	65.775	1.00	1.01	В	N
ATOM	2268 2269	N CA	PHE E		34.605	51.495	66.127	1.00	1.34	В	C
ATOM ATOM	2270	CB	PHE E		35.014	52.503	65.052	1.00	2.99 2.66	B B	c
ATOM	2271	CG	PHE F		36.464	52.867	65.090 63.983	1.00	3.07	В	č
MOTA	2272		PHE E		37.074 37.222	53.438 52.627	66.228	1.00	2.91	В	С
ATOM	2273	CD2	PHE I		38.419	53.758	64.003	1.00	4.19	В	C
MOTA	2274 2275	CE2			38.568	52.941	66.266	1.00	4.37	В	C C
MOTA MOTA	2276	CZ	PHE I		39.174	53.507	65.151	1.00	4.32 1.47	B B	c
ATOM	2277	С	PHE I		33.101	51.419	66.207 67.218	1.00 1.00	0.00	В	Ō
ATOM	2278	0	PHE I		32.501 32.514	51.768 50.935	65.117	1.00	1.98	В	N
ATOM	2279	N CA	LEU I		31.074	50.748	64.993	1.00	2.50	В	c
ATOM ATOM	2280 2281	CB	LEU		30.758	50.146	63.622	1.00	2.06	B B	
MOTA	2282	CG	LEU I	в 603	31.368	50.917	62.449	1.00	2.73, 1.78	В	
ATOM	2283		LEU !		31.333	50.088 52.228	61.172 62.279	1.00	3.65	В	_
MOTA	2284		LEU 1	В 603 В 603	30.617 30.594		66.105	1.00	2.05	В	
MOTA	2285 2286	C		В 603	29.738		66.921	1.00	3.14	В	
ATOM ATOM	2287	N		В 604	31.163	48.597	66.128	1.00	0.08	B	
ATOM	2288	CA	MET :	в 604	30.836			1.00 1.00	0.00 0.00	В	
MOTA	2289	CB		В 604	31.908 32.152		67.117 65.760	1.00	0.00	В	
ATOM	2290	CG		В 604 В 604	30.756		65.192	1.00	0.00	В	
MOTA	2291 2292	SD CE		B 604	30.508		66.564	1.00	0.00	Е	
MOTA ATOM	2293			В 604	30.769	48.193		1.00	0.00	E E	
MOTA	2294		MET	В 604	29.738			1.00	0.00 0.00	E	
MOTA	2295		ALA	B 605	31.896				0.00	E	
ATOM	2296			В 605	32.051 33.512				0.00	E	
ATOM	2297 2298			в 605 в 605	31.204				0.00	E	
ATOM	2299			в 605	30.745	50.970				E	
MOTA MOTA	2300ير	N	PHE	в,606	31.007	51.342	69.297			, E	
ATOM	A 2301	CA	PHE	B 606	30.193				_	·	
MOTA	2302	СВ		В 606	30.303 29.828					F	3 C
ATOM	2303	CC	PHE 1 PHE	B 606 B 606	30.284			1.00	0.00		3 C
MOTA	2304 2305	CD.	2 PHE	В 606	28.91	55.364	67.533				3 C
MOTA MOTA	2306	CE	1 PHE	в 606	29.83	1 56.796					3 C
ATOM	2307	CE	2 PHE	в 606	28.45						s c
MOTA	2308	CZ		В 606	28.913 28.773					1	в С
MOTA	2309			В 606 В 606	28.77				0.00		в 0
MOTA	2310 2311			В 607	28.22				0.00	1	в и
MOTA	2311	,									

W.

		26 973 50 968 68.521 1.00 0.00	в С
ATOM	2312 CA ALA B 607	26.873 50.900 67.496 1 00 0.56	вс
ATOM	2313 CB ALA B 607	26.437 50 439 69.878 1.00 0.91	ВС
ATOM	2314 C ALA B 607	25.330 50.718 70.342 1.00 1.76	B O B N
ATOM	2315 O ALA B 607 2316 N LEU B 608	27.310 49.678 70.518 1.00 1.36	ВС
ATOM		26.989 49.111 71.814 1.00 2.10	вс
ATOM		27.997 48.045 72.197 1.00 3.33	ВС
ATOM	2318 CB LEU B 608	27.644 47.437 73.300 1.00 3.39	вс
ATOM	2320 CD1 LEU B 60B	26.337 46.693 73.465 1 00 3.51	в С
ATOM ATOM	2321 CD2 LEU B 608	28.762 46.566 74.037 1.00 1.59	в С
ATOM	2322 C LEU B 608	26.937 30.120 72.706 1 00 2.42	в О
ATOM	2323 O LEU B 608	26.060 30.043 73.054 1.00 0.59	B N
MOTA	2324 N GLY B 609	27 929 52.068 73.988 1.00 0.00	в С в С
MOTA	2325 CA GLY B 609 2326 C GLY B 609	26 622 52.835 73.958 1.00 0.00	B C B O
ATOM	600	26.097 53.246 74.991 1.00 0.00	B N
MOTA	2327 O GLY B 609 2328 N TRP B 610	26.094 53.014 72.755 1.00 0.00	В. С
MOTA MOTA	2329 CA TRP B 610	24.837 53.710 72.552 1.00 0.16	вС
ATOM	2330 CB TRP B 610	24.6// 34.111 /1.000 1 00 0.72	вс
ATOM	2331 CG TRP B 610	23.343 34.053 70.700 1.00 1.34	ВС
MOTA	2332 CD2 TRP B 610	21 623 56 177 70.568 1.00 2.02	ВС
ATOM	2333 CE2 TRP B 610	23 754 57.254 70.975 1.00 0.48	в С в С
ATOM	2334 CE3 TRP B 610 2335 CD1 TRP B 610	22.180 54.016 70.574 1.00 1.46	В С В N
MOTA	n n c10	21.139 54.903 /0.433 1.00 1.13	вс
ATOM	2336 NEL TRP B 610 2337 CZ2 TRP B 610	20.961 57.403 70.510 1.00 1.13	ВС
MOTA MOTA	2338 CZ3 TRP B 610	23.098 56.405 76.520 1 00 0.11	в С
ATOM	2339 CH2 TRP B 610	21.714 58.536 70.003 1.00 0.00	вС
ATOM	2340 C TRP B 610	23.695 32.755 70 70 1 00 0 00	в 0
ATOM	2341 O TRP B 610	23 691 51 621 72.321 1.00 0.00	ви
MOTA	2342 N ARG B 611	22 639 50.656 72.615 1.00 0.00	в С в С
MOTA	2343 CA ARG B 611 2344 CB ARG B 611	22.950 49.306 71.964 1.00 0.00	вс
MOTA	C11	22.234 49.049 70.647 1.00 0.00	вс
ATOM	2345 CG ARG B 611 2346 CD ARG B 611	22.456 47.626 70.272 1 00 0.00	B N
ATOM ATOM	2347 NE ARG B 611	23.668 47.457 65.576 1.00 0.00	в С
ATOM	2348 CZ ARG B 611	23.809 47.897 68.123 1.00 0.00	B N
ATOM	2349 NH1 ARG B 611	24 930 47 656 67 465 1.00 0.00	ви
MOTA	2350 NH2 ARG B 611	22 485 50.470 74.119 1.00 0.00	в С в О
MOTA	2351 C ARG B 611 2352 O ARG B 611	21.393 50.608 74.650 1.00 0.00	ви
MOTA	D C12	23.586 50.176 74.799 1.00 0.21	вс
MOTA	2353 N SER B 612 2354 CA SER B 612	23.559 49.949 10.210 1 00 1 97	вс
ATOM ATOM	2355 CB SER B 612	24.752 49.108 70.072 1 00 3 40	в О
ATOM	2356 OG SER B 612	25.962 43.77 77.043 1.00 2.58	вс
ATOM	2357 C SER B 612	24 271 51.309 78.042 1.00 1.68	B O B N
MOTA	2358 O SER B 612 2359 N TYR B 613	22.794 52.201 76.599 1.00 3.97	вс
ATOM	D 613	22.682 53.493 77.269 1.00 4.63	вс
ATOM	2360 CA TYR B 613 2361 CB TYR B 613	23.712 54.464 70.002 1 00 6.54	ВС
ATOM ATOM	2362 CG TYR B 613	23.203 55.901 70.557 1.00 7.05	вс
ATOM	2363 CD1 TYR B 613	23.301 30.300 76 013 1 00 5 11	вс
ATOM	2364 CE1 TYR B 613	22 398 56 165 75.282 1.00 6.80	в С в С
ATOM	2365 CD2 TYR B 613	21.967 57.466 74.982 1.00 5.86	в С в С
ATOM	2366 CE2 TYR B 613 2367 CZ TYR B 613	22.344 58.510 75.804 1.00 5.00	во
ATOM	ODER ON THE B 613	21.931 59.782 75.517 1.00 4.53	вс
MOTA	22CO C MVD B 613	21.276 53.990 77.010 1 00 5 04	в 0
ATOM ATOM	2370 O TYR B 613	20.830 54.931 77.003 1.00 5.02	B N
ATOM	2371 N ARG B 614	20.300 33.333 75 741 1 00 5.62	вс
ATOM	2372 CA ARG B 614	19 226 53.987 74.227 1.00 5.50	в С в С
ATOM		17 995 54.664 73.612 1.00 4.73	в С в С
MOTA	ap apc p 614	18.203 54.848 72.099 1.00 3.03	ви
ATOM	vm npc p 614	16.987 55.193 71.333	ВС
ATOM	2377 CZ ARG B 614	16.852 55.070 70.030 1.00 3 92	B N
ATOM ATOM	2378 NH1 ARG B 614	17.860 54.607 65.525 1 00 2.03	B · N
ATOM	2379 NH2 ARG B 614	19 753 52 599 76.122 1.00 6.34	ВС
ATON	1 2380 C ARG B 614	10.233	в О в и
ATO	1 2381 O ARG B 614	18.653 51.346 75.890 1.00 6.19	B N B C
ATO!	CTN R 615	17.798 50.183 76.148 1.00 5.65	вс
ATO	2384 CB GLN B 615	17.929 49.190 74.992 1.00 0.32	в С
ATO	2385 CG GLN B 615	77.100 33.000 1 00 12 10	в С
ATO! ATO!	2386 CD GLN B 615	13.003 10.647 73 081 1.00 12.21	в О
ATO	1 2387 OE1 GLN B 615	15 224 48 616 75.043 1.00 13.67	ви
ATO	M 2388 NE2 GLN B 615	17 965 49.424 77.455 1.00 5.32	в С в О
ATO	M 2389 C GLN B 615	17.735 48.208 77.500 1.00 2.00	B O B N
ATO	2 CEP B 616	18.359 50.127 78.514 1.00 5.00	вс
ATO	2200 CT CTP R 616	18.525 49.491 79.826 1.00 6.22	
ATO	12		

		/		616	19.477	48.281	79.729		4.53	В	C
MOTA			SER B		19.024	47.204	80.538		4.21	B B	O C
ATOM ATOM			SER B		19.044	50.504	80.846		6.59 6.15	В	ŏ
ATOM		_	SER B		19.244	50.172	82.017		6.95	В	N
ATOM			SER E		19.239	51.736	80.373 81.175		8.12	В	С
ATOM			SER E		19.720 19.317	52.865 52.732	82.651	1.00	9.42	В	С
MOTA		-	SER E		19.909	53.759	83.441	1.00 1	0.49	В	0
MOTA			SER E SER E		21.221	53.050	81.104	1.00	8.93	В	C O
MOTA MOTA		-	SER E		21.773	53.880	81.825	1.00	9.37 9.92	B B	N
ATOM			ALA E		21.875	52.271	80.247 80.065	1.00 1.00 1		В	Ċ
MOTA			ALA E		23.322	52.345 53.817	80.062	1.00 1		В	С
ATOM			ALA I		23.771 24.196	51.540	81.036	1.00	9.64	В	C
ATOM	2406	-	ALA I ALA I		24.943	50.652	80.616	1.00	8.47	В	0
MOTA	2407 2408		ASN I		24.095	51.865	82.326	1.00	8.32	B B	N C
ATOM ATOM	2409		ASN I		24.879	51.235	83.405	1.00 1.00	6.30 5.29	В	č
ATOM	2410		ASN 1		24.340	51.713 51.720	84.765 85.836	1.00	6.28	В	С
ATOM	2411		ASN 1		25.405 26.542	52.116	85.585	1.00	6.67	В	0
MOTA	2412		ASN I		25.043	51.292	87.042	1.00	6.41	В	N
MOTA	2413 2414	C MD2	ASN I		24.959	49.692	83.368	1.00	4.39	B B	C O
ATOM ATOM	2415	ŏ		в 619	25.668	49.070	84.169	1.00	1.39 3.21	В	N
ATOM	2416	N	LEU		24.220	49.104	82.430 82.213	1.00	1.64	В	С
ATOM	2417	CA	LEU		24.183 22.770	47.675 47.146	82.396	1.00	0.00	В	С
ATOM	2418	CB		В 620 В 620	22.061	47.375	83.728	1.00	0.00	В	C
MOTA	2419 2420	CG CD1	LEU		. 20.949	46.362	83.847	1.00	0.00	B B	c c
ATOM ATOM	2420			в 620	23.003	47.209	84.886	1.00	0.00 1.61	В	č
ATOM	2422	C		в 620	24.613	47.471	80.769 79.869	1.00 1.00	3.95	В	ō
ATOM	2423	0	LEU		24.020	48.057 46.650	80.550	1.00	0.61	В	N
ATOM	2424	N	LEU		25.638 26.161	46.380	79.209	1.00	0.00	В	C
MOTA	2425	CA CB	TEO.		27.537	45.748	79.337	1.00	0.29	B B	C
MOTA MOTA	2426 2427	CG	LEU		28.725	46.661	79.086	1.00	0.00	В	Č
ATOM	2428	CD1	LEU	B 621	30.006	45.916	79.397 77.636	1.00 1.00	0.00	В	c
ATOM	2429		LEU		28.719	47.123 45.498	78.309	1.00	0.00	В	С
MOTA	2430	C	LEU		25.282 25.510	44.303	78.199	1.00	0.00	В	0
ATOM	2431 2432	O N	CYS		24.309	46.096	77.633	1.00	0.00	B B	N C
ATOM ATOM	2432	CA	CYS		23.410	45.334	76.781	1.00	0.00 0.00	В	č
ATOM	2434	CB	CYS	B 622	22.015	45.958	76.803 75.813	1.00	0.00	В	S
ATOM	2435	SG	CYS		21.856 23.857	47.444 45.177	75.332	1.00	0.00	В	С
MOTA	2436	Ç	CYS		23.734	46.100	74.525	1.00	0.00	В	0
ATOM	2437 2438	O N	PHE		24.328	43.977	75.005	1.00	0.00	B B	N C
ATOM ATOM	2439	CA		в 623	24.797		73.668	1.00	0.00	В	č
ATOM	2440	CB	PHE		25.745		73.775 74.616	1.00	0.00	В	С
ATOM	2441	CG	PHE	B 623	26.936 28.108		74.016	1.00	0.00	В	C
ATOM	2442	CD1	PHE		26.891		75.982	1.00	0.00	В	C
MOTA	2443 2444		PHE	-	29.225	43.467	74.828	1.00	0.00	В В	Č
MOTA ATOM	2445		PHE		2B.003			1.00 1.00	0.00	В	č
ATOM	2446	CZ	PHE		29.17			1.00	0.40	В	С
ATOM	2447	C	PHE	B 623 B 623	23.680 23.93				0.00	В	0
MOTA	2448 2449	Ŋ	ATA	B 624	22.46		73.195	1.00	2.69	B B	C
MOTA MOTA	2450	CA	ALA	B 624	21.27				3.96 4.93	В	č
ATOM	2451	СВ	ALA	в 624	21.51				5.05	В	С
ATOM	2452	С	ALA	В 624	20.11 20.25				6.07	В	0
MOTA	2453	0	ALA	В 624 В 625	18.94			1.00	6.15	В	N
MOTA	2454	N CD	PRO	В 625	18.44		71.457		8.05	B B	C
ATOM ATOM	2455 2456	CA	PRO	в 625	17.82					В	č
ATOM	2457	СВ	PRO	B 625	16.61					В	C
ATOM	2458	CG	PRC	В 625	17.00					В	С
MOTA	2459		PRC	В 625 В 625	17.97 17.79				8.70	В	0
MOTA	2460	0	ACE	B 626			2 73.798	1.00		В	N
MOTA MOTA	2461 2462	N CA	ASE	ъ ∙626	18.46	4 38.329	74.422	1.00	4.49 3.52	В	C
ATOM	2463		ASE	в 626	18.61					В	č
MOTA	2464	CG	ASE	р в 626	19.52			·		В	0
ATOM	2465	OD	1 ASE	в 626	19.00 20.75			1.00	0.00	В	0
ATOM	2466		Z ASI	р в 626 р в 626			0 75.37	1.00		В	С 0
MOTA	2467 2468		ASI	р в 626	19.82	5 37.30	7 76.11			B B	N
MOTA MOTA			LEU	јв 627	20.43					В	C
ATOM			LE	јв 627	21.61					В	С
ATOM	2471		LE	J B 627	22.79				3.87	В	C
MOTA		CG	LEI 1 TEI	јв 627 јв 627					5.30	В	С
MOTA	2473	, ,,		 ·	22.7						

ATOM	2474	CD2	LEU B	627	24.961	37.791	75.328	1.00	5.56	B B	C
ATOM	2475	С	LEU B		21.915	40.750	76.859	1.00	0.98 0.00	В	Ö
ATOM	2476		TER B		22.050	41.739 40.804	76.160 78.181	1.00	1.05	В	N
MOTA	2477		ILE B	628	22.015 22.302	42.063	78.861	1.00	0.28	В	С
ATOM	2478	CA CB	IPE B		21.020	42.771	79.358	1.00	0.00	В	C
ATOM ATOM	2479 2480			628	21.298	44.242	79.573	1.00	0.00	В	C
ATOM	2481			628	19.893	42.621	78.346	1.00	0.33	B B	C
ATOM	2482	CD1	ILE B		19.159	41.291	78.449	1.00 1.00	1.09 0.23	В	č
ATOM	2483	С		628	23.188	41.820 41.640	80.077 81.195	1.00	0.00	В	ō
ATOM	2484	0		628 629	22.703 24.493	41.821	79.875	1.00	0.02	В	N
ATOM ATOM	2485 2486	n Ca	ILE B		25.344	41.573	81.004	1.00	1.90	В	C
ATOM	2487	CB		629	26.817	41.730	80.660	1.00	0.66	В	C C
ATOM	2488	CG2	ILE B		27.666	41.522	81.917	1.00	0.00 0.31	B B	Ċ
MOTA	2489		ILE B		27.189	40.703 40.608	79.595 79.345	1.00 1.00	0.44	В	č
ATOM	2490	-	ILE B	629 629	28.646 24.995	42.498	82.139	1.00	3.45	В	С
ATOM ATOM	2491 2492	C C	ILE B		25.280	43.680	82.083	1.00	4.49	В	0
ATOM	2493	N		630	24.359	41.943	83.163	1.00	4.89	B B	N C
ATOM	2494	CA		630	23.965	42.677	84.365	1.00	5.30 3.90	В	Č
MOTA	2495	CB	ASN B		23.366	41.681 40.745	85.352 84.684	1.00	5.42	В	ç
ATOM	2496	CG	ASN B		22.374 22.685	40.127	83.659	1.00	4.80	В	0
ATOM	2497 2498		ASN B		21.173	40.637	85.254	1.00	4.96	В	N
ATOM ATOM	2499	C	ASN B		25.185	43.370	84.971	1.00	5.91	В	C
ATOM	2500	ō	ASN B		26.053	43.825	84.242	1.00	5.56 7.42	B	N N
ATOM	2501	N	GLU B		25.272	43.462	86.293 86.881	1.00	8.28	В	Ċ
ATOM	2502	CA	GLU B	631	26.454 26.065	44.100 45.421	87.591	1.00	8.34	В	С
MOTA	2503 2504	CB CG	GLU B	631 631	27.245	46.390	87.867	1.00	8.93	В	C
MOTA MOTA	2505	CD	GLU B		26.927	47.495	88.891	1.00	8.64	В	C
ATOM	2506	OE1	GLU B	631	26.399	47.178	89.979	1.00	9.42 7.18	B B	ŏ
MOTA	2507	OE2	GLU B		27.223	48.680 43.143	88.619 87.841	1.00	8.41	B	č
ATOM	2508	C	GLU B	631 631	27.200 28.399	43.309	88.106	1.00	8.53	В	0
ATOM ATOM	2509 2510	O N	GLN B		26.488	42.141	88.356	1.00	7.89	В	N
ATOM	2511	CA	GLN B		27.102	41.164	89.247	1.00	7.38	B	C
ATOM	2512	CB	GLN B		26.040	40.471	90.110 91.243	1.00	5.66 3.17	В	C
ATOM	2513	CG			25.503 26.003	41.335 40.911	92.613	1.00	1.69	В	C
MOTA	2514	CD OE1	GLN B		27.180	40.606	92.797	1.00	0.31	В	0
ATOM ATOM	2515 2516	NE2			25.108	40.907	93.584	1.00	0.00	В	N
ATOM	2517	C	GLN B		27.857	40.134	88.406	1.00	7.89 9.09	B B	0
MOTA	2518	0	GLN B		28.508	39.232 40.288	88.943 87.086	1.00	7.91	В	N
ATOM	2519	N	ARG B		27.773 28.446	39.396	86.155	1.00	8.24	В	С
ATOM ATOM	2520 2521	CA CB	ARG B		27.442	38.810	85.166	1.00	9.11	В	C
ATOM	2522	CG	ARG B	633	27.994	37.683	84.286	1.00	8.31	B B	C
ATOM	2523	CD	ARG B		26.849	36.800	83.848 85.007	1.00 1.00	8.44 9.93	В	N
ATOM	2524	NE	ARG B		26.017 24.720	36.501 36.250	84.958	1.00	8.99	В	С
ATOM	2525 2526	CZ NH1	ARG B		24.083	36.253	83.796	1.00	9.55	В	N
ATOM ATOM	2527		ARG B		24.062	36.022	86.082	1.00	8.74	В	N C
ATOM	2528	С	ARG B		29.528	40.159	85.402	1.00	8.55 8.86	B B	Ö
MOTA	2529	0	ARG B		30.053 29.847	39.696 41.348	84.392 85.883	1.00	9.45	B	N
MOTA	2530	N CA	MET B		30.890	42.148	85.259	1.00	9.98	В	С
ATOM ATOM	2531 2532	CB	MET B		30.449	43.610	85.179		10.92	В	C
ATOM	2533	CG	MET B	634	28.985	43.776	84.805		11.55	B B	C S
MOTA	2534	SD	MET B		28.404	45.495 45.990	84.954 83.191		12.74 12.39	В	č
MOTA	2535	CE	MET B		28.352 32.080	41.987	86.210	1.00	9.74	В	С
MOTA MOTA	2536 2537	С 0	MET B		32.933	42.881	86.355	1.00	9.15	В	0
ATOM	2538	N	THR B	635	32.105	40.822	86.856	1.00	8.39	B B	N C
ATOM	2539	CA	THR B		33.135	40.466	87.826	1.00	7.94 9.56	В	Č
ATOM	2540	CB	THR B	635	32.527 31.913	40.326 39.031	89.221 89.346	1.00	8.57	В	Ō
ATOM	2541	OGI	THR B	635	31.458	41.423	89.438		10.40	В	С
MOTA MOTA	2542 2543	C	THR B	635	33.730	39.124	87,450	1.00	6.48.		C
ATOM	2544	ŏ	THR B	635	34.939	38.921	87.483	1.00	6.42	В	N O
ATOM	2545	N	LEU B		32.835	38.218	87.081	1.00	6.45 6.37	B B	C
MOTA	2546	CA	LEU B		33.171	36.865 36.016	86.674 86.667	1.00	3.85	В	č
MOTA	2547	CB CG	LEU B		31.881 31.824	34.520	86.326	1.00	2.48	В	C
MOTA MOTA	2548 2549	CD1	PEA B		30.575	33.864	86.918	1.00	1.29	В	C
ATOM	2550	CD2	LEU E	636	31.820	34.354	84.823	1.00	1.98	B B	C
ATOM	2551	С	LEU E	636	33.881	36.818	85.313 84.882	1.00	8.32 7.96	В	Ö
ATOM	2552	0	LEU E		34.310 34.051	35.745 37.976	84.624	1.00	9.88	В	N
MOTA	2553 2554	N CD	PRO E		33.519	39.352	84.713	1.00	9.39	В	С
MOTA	2334	20									

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MOTA	2555 CA	PRO B 637	34.738		83.342	1.00 11.05 1.00 9.72	B B	C C
ATOM	2556 CB	PRO B 637	34.265		82.534	1.00 9.72 1.00 8.64	В	č
ATOM	2557 CG	PRO B 637	34.217		83.559	1.00 13.46	В	С
ATOM	2558 C	PRO B 637	36.270	•	83.403 84.217	1.00 14.90	В	0
ATOM	2559 O	PRO B 637	36.938 36.813	38.359 36.855	82.534	1.00 13.65	В	N
ATOM	2560 N	ASP B 638	38.254	36.694	82.402	1.00 12.96	В	С.
ATOM	2561 CA	- 400	38.560	35.536	81.436	1.00 13.27	В	C
ATOM	2562 CB	- 40.0	40.009	35.084	81.485	1.00 11.66	В	C
ATOM	2563 CG	1 ASP B 638	40.908	35.947	81.430	1.00 9.78	В	0
ATOM		2 ASP B 638	40.243	33.855	81.567	1.00 9.98	В	O C
ATOM ATOM	2566 C	ASP B 638	38.623	38.039	B1.760	1.00 13.79	B B	Ö
ATOM	2567 0	ASP B 638	39.720	38.209	81.227	1.00 18.18	В	N
ATOM	2568 N	MET B 639	37.655	38.965	81.794	1.00 12.76 1.00 12.47	В	Ċ
ATOM	2569 CA		37.776	40.332	81.274 79.758	1.00 12.47	В	Č
ATOM	2570 CB		37.490	40.403 41.850	79.730	1.00 10.67	В	С
ATOM	2571 CG		37.407 37.606	42.030	77.393	1.00 7.70	В	S
ATOM	2572 SD		36.034	42.793	76.868	1.00 5.74	В	C
ATOM	2573 CE	: MET B 639 MET B 639	36.862	41.337	81.998	1.00 12.93	В	C
ATOM	2574 C 2575 O	MET B 639	35.706	41.577	81.607	1.00 12.98	В	0
MOTA	2575 O 2576 N	TYR B 640	37.400	41.903	83.072	1.00 11.95	B B	N C
MOTA MOTA	2577 CA		36.721	42.920	83.862	1.00 9.67 1.00 6.77	В	č
ATOM	2578 CB		36.394	42.397	85.251	1.00 6.77 1.00 5.87	В	č
ATOM	2579 CG	TYR B 640	36.375	43.474	86.285	1.00 5.63	В	Ċ
ATOM	2580 CE	1 TYR B 640	35.357	44.422	86.319 87.244	1.00 5.53	В	С
ATOM	2581 CE		35.378 37.413	45.463 43.589	87.203	1.00 6.07	В	С
MOTA	2582 CD		37.413	44.630	88.132	1.00 5.83	В	C
ATOM	2583 CE		36.419	45.553	88.144	1.00 4.97	В	C
ATOM	2584 CZ 2585 OF		36.433	46.536	89.087	1.00 6.67	В	0
ATOM	2586 C	TYR B 640	37.806	43.983	83.917	1.00 8.84	В	С О
MOTA MOTA	2587 0	TYR B 640	37.589	45.142	84.281	1.00 7.07	B B	N
MOTA	2588 N	ASP B 641	38.997	43.537	83.535	1.00 9.04 1.00 8.79	В	Ĉ
ATOM	2589 C		40.164	44.395	83.449 83.507	1.00 8.79 1.00 8.34	В	Ċ
MOTA	2590 CE		41.456	43.553 42.058	83.354	1.00 5.99	В	С
MOTA	2591 C		41.199 40.357	41.515	84.101	1.00 4.95	В	0
MOTA		D1 ASP B 641	41.851	41.425	82.498	1.00 3.33	В	0
ATOM	-	D2 ASP B 641 ASP B 641	39.998	45.073	82.081	1.00 9.57	В	C
ATOM	2594 C 2595 O		40.854	45.830	81.613	1.00 10.91	В	N N
ATOM ATOM	2596 N		38.864	44.775	81.456	1.00 9.01	B B	C
ATOM	2597 C		38.503	45.324	80.161	1.00 8.20 1.00 7.93	В	č
ATOM	2598 C		39.498	44.841	79.077 78.783	1.00 4.06	В	C
MOTA	2599 C	- 4.0	40.607	45.867 45.299	78.810	1.00 3.80	В	С
ATOM	2600 C		42.041 42.466	44.650	79.779	1.00 3.12	В	0
MOTA		E1 GLN B 642 E2 GLN B 642	42.798	45.569	77.746	1.00 2.28	В	N
ATOM			37.028	44.965	79.846	1.00 8.23	В	C
MOTA	2603 C 2604 O		36.684	44.394	78.808	1.00 6.78	В	Ŋ
ATOM ATOM	2605 N		36.162	45.322	80.787	1.00 8.29 1.00 8.60	B B	C
MOTA	2606 · C		34.730	45.098	80.667	1.00 8.60 1.00 9.67	В	č
ATOM	2607 C		34.258	44.133	81.738 83.341	1.00 14.21	В	s
ATOM		G CYS B 643	34.173	44.954 46.462	80.970	1.00 7.46	В	С
MOTA	2609 C		34.141 32.956	46.720	80.771	1.00 6.22	В	0
ATOM	2610 0		35.012	47.320	81.482	1.00 7.31	В	N
MOTA	2611 N 2612 C	A LYS B 644	34.662	48.675	81.860	1.00 7.34	В	C
MOTA MOTA		B LYS B 644	35.510	49.121	83.053		B B	C
ATOM		G LYS B 644	37.012	48.911	82.853		В	č
ATOM		D LYS B 644	37.818	49.281	84.103		В	č
ATOM		E LYS B 644	39.305		83.958 82.740		В	N
ATOM	2617 N	Z LYS B 644	39.923		80.708		В	С
ATOM	2618 C		34.893 34.139	 .	80.515		В	0
MOTA	2619 C		35.937		79.933		В	N
ATOM	2620 N		36.200		78.827	1.00 2.33	В	C
MOTA		CB HIS B 645	37.317				В	C
ATOM ATOM	2623 (CG HIS B 645	38.631	49.654			B B	C .
MOTA	2624 0	CD2 HIS B 645	38.972				В	Ŋ.
MOTA	2625 N	ND1 HIS B 645	39.780				В	Ċ
MOTA	2626	CE1 HIS B 645	40.776				В	N
MOTA		NE2 HIS B 645	40.311 34.939				В	C
ATOM		C HIS B 645 O HIS B 645	34.488				В	0
MOTA			34.345			1.00 0.56	В	N
ATOM		N MET B 646 CA MET B 646	33.146		76.71		В	C
MOTA		CB MET B 646	32.638		76.28		В	C
MOTA MOTA		CG MET B 646	33.687	47.370			B B	S
ATOM		SD MET B 646	32.848				В	č
ATOM		CE MET B 646	31.833	3 45.515	76.58	, 2.30 4.12		

ATOM	2636	С	MET B	646	32.057	50.341	77.491	1.00	0.00	В	C
ATOM	2637	-	MET B	646	31.299	51.111	76.925	1.00	0.00	B B	O N
ATOM	2638	N	LEU B	647	31.958	50.065	78.786 79.624	1.00	0.00	В	Ĉ
MOTA	2639		LEU B	647 647	30.939 30.842	50.702 49.964	80.957	1.00	0.00	В	C
ATOM ATOM	2640 2641	CB	LEU B	647	29.543	50.132	81.722	1.00	0.00	В	C
ATOM	2642		LEU B	647	28.416	49.541	80.923	1.00	0.00	B B	C C
ATOM	2643		LEU B	647	29.648	49.462 52.183	83.055 79.844	1.00 1.00	1.27	В	č
ATOM	2644	C	LEU B	647	31.300 30.428	53.048	79.946	1.00	0.00	В	0
ATOM	2645 2646	N O	LEU B TYR B	647 648	32.603	52.451	79.906	1.00	3.34	В	N
ATOM ATOM	2647	CA	TYR B	648	33.152	53.797	80.070	1.00	4.93	B B	C
ATOM	2648	CB	TYR B	648	34.681	53.746	80.204 81.602	1.00	2.83 4.48	В	č
MOTA	2649	CG	TYR B	648 648	35.236 36.596	53.570 53.354	81.792	1.00	4.35	В	С
ATOM ATOM	2650 2651	CD1 CE1	TYR B	648	37.131	53.228	83.055	1.00	4.34	В	C
ATOM	2652	CD2	TYR B		34.414	53.653	82.732	1.00 1.00	4.68 3.46	B B	Ċ
ATOM	2653	CE2	TYR B		34.941 36.305	53.528 53.317	84.014 84.161	1.00	4.16	В	Ċ
ATOM	2654	CZ	TYR B		36.862		85.409	1.00	5.17	В	0
ATOM ATOM	2655 2656	OH C	TYR B		32.825	54.593	78.809	1.00	5.48	B B	C O
ATOM	2657	ō	TYR B		33.408	55.665	78.569	1.00 1.00	7.80 4.36	В	Ŋ
ATOM	2658	N	VAL B		31.914 31.493	54.047 54.667	77.999 76.745	1.00	2.80	В	C
ATOM	2659	CA CB	VAL B		31.495	53.657	75.596	1.00	2.04	В	C
ATOM ATOM	2660 2661		VAL B		30.963	54.308	74.346	1.00	1.75	B B	C C
ATOM	2662	CG2	VAL B	649	32.899	53.114	75.374	1.00 1.00	2.10 2.51	В	Č
MOTA	2663	C	VAL B		30.081 29.735	55.186 56.235	76.882 76.361	1.00	0.00	В	0
ATOM	2664	N N	VAL B SER B		29.267	54.433	77.602	1.00	3.61	В	N
ATOM ATOM	2665 2666	CA	SER B		27.879	54.800	77.800	1.00	4.00	B B	C
ATOM	2667	CB	SER B		27.074	53.548	78.129 79.150	1.00	3.75 6.70	В	ŏ
ATOM	2668	OG	SER B		27.726 27.669	52.813 55.849	78.883	1,00	3.42	В	С
ATOM	2669 2670	C C	SER B		26.536	56.221	79.156	1.00	3.44	В	0
ATOM ATOM	2671	N	SER B		28.744	56.326	79.503	1.00	2.15 1.27	B B	С И
ATOM	2672	CA	SER B		28.608	57.339 56.869	80.553 81.845	1.00	1.99	В	Ċ
ATOM	2673	CB	SER B		29.289 28.384	56.187	82.694	1.00	0.00	В	0
ATOM ATOM	2674 2675	OG C	SER B		29.107	58.739	80.182	1.00	0.88	B B	C O
ATOM	2676	ō	SER B	651	28.987	59.670	80.967	1.00	1.76 0.00	В	N
MOTA	2677	N	GLU E		29.663 30.141	58.884 60.173	78.989 78.524	1.00	0.00	В	С
ATOM	2678 2679	CA CB	GLU E		31.635	60.083	78.163	1.00	0.00	В	C
ATOM ATOM	2680	CG	GLU E		32.348	61.422	77.974	1.00	0.00	B B	C
ATOM	2681	CD	GLU E		32.113	62.376 61.967	79.133 80.284	1.00	0.00	В	ŏ
MOTA	2682	OE1 OE2			32.374 31.669	63.529	78.886	1.00	0.00	В	0
ATOM ATOM	2683 2684	C	GLU E		29.272	60.457	77.302	1.00	0.00	B B	C
ATOM	2685	0	GLU E		29.281	61.532 59.442	76.737 76.913	1.00	0.00	В	Ŋ
ATOM	2686	N	LEU E		28.520 27.585	59.442	75.802	1.00	0.00	В	С
ATOM ATOM	2687 2688	. CA CB	LEU I		27.459	58.088	75.192	1.00	0.11	В	C C
MOTA	2689	CG	LEU E	3 653	26.801	57.694	73.861	1.00	0.00 1.46	B B	C
MOTA	2690	CD1	LEU I	B 653	25.425 27.644	58.282 58.148	73.772 72.698	1.00	0.75	В	c
ATOM	2691	CD2	LEU I	в 653 В 653	26.306	59.869	76.550	1.00	0.00	В	C
MOTA MOTA	2692 2693	ŏ	LEU I		25.320	60.308	75.981	1.00	0.00	B B	И
ATOM	2694	N	HIS I		26.349	59.691 59.993	77.860 78.713	1.00 1.00	0.00 0.30	В	Ċ
ATOM	2695	CA	HIS I		25.220 24.969	58.829	79.649	1.00	0.00	В	C
ATOM ATOM	2696 2697	CB CG	HIS I	B 654	23.757	58.989	80.505	1.00	0.03	В	C
ATOM	2698	CD2	HIS !	B 654	22.495	58.530	80.353	1.00	0.00 0.86	B B	N
MOTA	2699	ND3	HIS I	B 654	23.777 22.578	59.676 59.628	81.697 82.245		0.86	В	C
ATOM	2700 2701	CEI	HIS I	B 654	21.782	58.938	81.451	1.00	0.22	В	N
MOTA MOTA	2701	C	HIS	B 654	25.561	61.226	79.504		0.89	B B	. o
ATOM	2703	0	HIS	B 654	24.672	61.944	79.974 79.668		1.36 1.35	B	Ŋ
ATOM	2704	N		В 655 В 655	26.865 27.363	61.449 62.620	80.373		2.84	В	С
MOTA	2705 2706	CA; CB		B 655	28.885	62.547	80.525	1.00	3.77	В	C
ATOM ATOM	2707	CG	ARG	B 655	29.555	63.879	80.817			B B	C
MOTA	2708	CD		B 655	30.802	63.753 63.586				В	N
ATOM	2709	NE CZ		В 655 В 655	30.481 31.271	63.967	84.134		7.26	В	С
MOTA MOTA	2710 2711	CZ NH:	1 ARG	B 655	32.437	64.540	83.886	1.00		В	N N
ATOM	2712		2 ARG	B 655	30.887					B B	N C
MOTA	2713			B 655	26.963 26.332					В	0
ATOM	2714 2715			B 655 B 656	27.304	63.676	78.202	1.00	2.73	В	N
MOTA MOTA	2716			B 656	26.956		77.231	. 1.00	2.39	В	С

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ATOM	2717	св :	LEU B	656		64.682	76.033		0.24	B B	C
ATOM	2718	CG :	LEU B	656		64.888 64.929	76.301 74.988	1.00	0.00	B	С
ATOM	2719		LEU B	656	30.161 29.586	66.166	77.061	1.00	0.00	В	С
ATOM	2720 2721		LEU B LEU B	656 656	25.536	64.504	76.725	1.00	3.19	В	0
ATOM ATOM	2722		LEU B	656	25.124	65.161	75.774	1.00	3.40 3.85	B B	Ŋ
MOTA	2723	N	GLN B	657	24.795	63.592	77.352 76.959	1.00	4.18	В	Ċ
MOTA	2724		GLN B	657	23.414 22.454	63.309 64.231	77.720	1.00	6.48	В	C
MOTA	2725		GLN B GLN B		22.582	64.173	79.249	1.00		В	C
ATOM ATOM	2726 2727		GLN B		21.694	65.195	79.978	1.00		B B	С 0
ATOM	2728		GLN B		21.753	65.322	81.203		L5.56 L4.40	В	N
ATOM	2729		GLN B		20.872	65.921 63.461	79.224 75.447	1.00	2.89	В	C
MOTA	2730	_	GLN B		23.174 22.112	63.913	75.027	1.00	1.31	В	0
MOTA	2731 2732	N O	GLN B VAL B		24.171	63.078	74.648	1.00	1.74	В	N C
MOTA MOTA	2733	CA	VAL B		24.108	63.152	73.187	1.00	0.37 0.72	B B	c
ATOM	2734	CB	VAL B		25.131	62.205	72.532 71.023	1.00	2.31	В	Č
ATOM	2735	-	VAL B		25.122 26.505	62.386 62.472	73.085	1.00	0.94	В	С
MOTA	2736	CG2	VAL B		22.746	62.746	72.697	1.00	0.00	В	C
ATOM ATOM	2737 2738	C O	VAL B		22.013	62.085	73.409	1.00	0.00	B B	O N
ATOM	2739	N	SER B	659	22.402	63.135	71.480	1.00 1.00	0.00	В	Ĉ
ATOM	2740	CA	SER B		21.106 20.376	62.761 63.996	70.932 70.411	1.00	0.00	В	С
MOTA	2741	CB	SER B		20.376	64.927	71.452	1.00	0.00	В	0
MOTA	2742 2743	OG C	SER B		21.219	61.724	69.817	1.00	2.02	В	C
ATOM ATOM	2744	ŏ	SER E		22.325	61.381	69.380	1.00	1.89	B B	N
ATOM	2745	N	TYR E	660	20.063	61.233	69.365 68.291	1.00 1.00	4.01 4.74	В	Ĉ
ATOM	2746	CA	TYR E		19.980	60.236 59.598	68.268	1.00	3.00	В	C
ATOM	2747	CB	TYR E		18.581 18.411	58.536	67.212	1.00	0.00	В	С
MOTA	2748	CG CD1	TYR E		18.831	57.230	67.436	1.00	0.00	В	C
ATOM ATOM	2749 2750	CE1	TYR E		18.707	56.259	66.453	1.00	0.00	B B	C
ATOM	2751	CD2	TYR E		17.860	58.847	65.972	1.00	0.00	В	č
ATOM	2752	CE2	TYR I		17.735	57.886 56.593	64.979 65.228	1.00	0.00	В	C
ATOM	2753	CZ	TYR I		18.159 18.027	55.639	64.248	1.00	0.00	В	0
ATOM	2754	OH C	TYR I		20.289	60.861	66.922	1.00	5.76	В	C
ATOM ATOM	2755 2756	ŏ	TYR I		21.240	60.472	66.245	1.00	7.12	B B	O N
ATOM	2757	N	GLU 1		19.480	61.828	66.511	1.00	6.06 6.44	В	ĉ
ATOM	2758	CA	GLU I		19.712	62.492 63.511	65.242 64.974	1.00	7.22	В	С
MOTA	2759	CB	GLU I		18.605 17.193	63.023	65.346	1.00	8.43	В	C
ATOM	2760 2761	CG CD	GLU I		16.620	61.966	64.395	1.00	8.03	В	C
ATOM ATOM	2762	OE1			15.520	61.434	64.677	1.00	7.13 7.62	B B	ő
MOTA	2763	OE2			17.260	61.674	63.365 65.383	1.00	6.19	В	Č
MOTA	2764	C	GLU 1		21.056 21.466	63.198 63.948	64.510	1.00	8.69	В	0
ATOM	2765 2766	N O	GLU :		21.730	62.938	66.502	1.00	5.14	В	N
ATOM ATOM	2767	CA	GLU :		23.032	63.517	66.829	1.00	4.36	B B	C
ATOM	2768	СВ	GLU :		22.942	64.257	68.175 68.564	1.00 1.00	3.06 2.11	В	č
MOTA	2769	CG	GLU		24.143 24.066	65.127 65.665	69.995	1.00	1.78	В	C
ATOM	2770	CD OF1	GLU		22.978	66.096	70.411	1.00	1.59	В	0
ATOM ATOM	2771 2772	OE2		В 662	25.093	65.667	70.702	1.00	1.65	B B	O C
MOTA	2773	C	GLU	в 662	24.021	62.366	66.941	1.00	4.24 2.99	В	ŏ
ATOM	2774	0		B 662	25.212	62.568 61.150	67.087 66.857	1.00	3.70	В	N
MOTA	2775	N		B 663	23.498 24.281	59.913	66.958	1.00	1.87	В	С
ATOM	2776	CA CB		В 663 В 663	23.493	58.908	67.808	1.00	0.44	В	C
MOTA MOTA	2777 2778	CG		В 663	23.786	57.446	67.550	1.00	1.17	В	C
ATOM	2779	CD1	TYR	B 663	24.986	56.866	67.955 67.742		0.80 1.25	B B	č
ATOM	2780	CEI	TYR	В 663	25.242	55.515 56.637	66.921			В	С
ATOM	2781		2 TYR		22.849 23.095	55.285	66.700			В	С
ATOM	2782		TYR	B 663	24.292	54.730	67.113			В	C
ATOM ATOM	2783 2784			B 663	24.539	53.393				B B	0
MOTA	2785		TYR	B 663	24.617	59.293				B	ŏ
MOTA	2786	. 0		В 663	25.752	58.941				В	. N
MOTA	2787			B 664	23.602 23.763	.59.155 58.576				В	С
MOTA	2788			B 664 B 664	22.424	58.605	62.684	1.00	0.00	В	C
ATOM	2789 2790			B 664	21.084	58.254	63.350	1.00	0.00	B B	C
ATOM ATOM	2791	. CD	1 LEU	B 664	19.986					B	c
ATOM	2792	CD	2 LEU	B 664	21.126					B	č
ATOM	2793			B 664	24.812 25.354	59.343 58.827				В	0
MOTA	2794			B 664 B 665	25.083		63.043	1.00	0.00	В	И
MOTA MOTA	2795 2796			B 665	26.088	61.401	62.359			B B	C
ATOM	2797		_	B 665	25.741	62.876	62.439	1.00	0.00	a	_

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ATOM	2798	SG	CYS B	665	25.300	63.577	60.867	1.00	0.00	В	S
ATOM	2799	c	CYS B		27.403	61.179	63.049	1.00	0.00	B B	C
MOTA	2800	0	CYS B	_	28.426	60.982	62.407 64.375	1.00	0.00	В	N
ATOM	2801	N	MET B		27.351 28.524	61.205 60.993	65.204	1.00	0.67	В	С
MOTA	2802	CA CB	MET B	666 666	28.115	60.976	66.674	1.00	0.00	В	C
ATOM ATOM	2803 2804	CG	MET B		29.207	61.363	67.639	1.00	0.46	В	C
ATOM	2805	SD	MET B		28.527	62.015	69.191	1.00	0.00	В	S C
ATOM	2806	CE	MET B		28.221	60.528	70.092	1.00	0.57 0.95	B B	ç
ATOM	2807	С	MET B		29.199	59.680	64.827 64.561	1.00 1.00	1.95	В	ŏ
MOTA	2808	0	MET B		30.391 28.439	59.657 58.590	64.778	1.00	0.40	В	N
MOTA	2809 2810	n Ca	LYS B		29.018	57.301	64.429	1.00	0.63	В	C
MOTA MOTA	2811	CB	LYS B		28.019	56.163	64.562	1.00	2.57	В	C C
ATOM	2812	CG	LYS B		28.673	54.783	64.444	1.00	0.68 0.32	B B	c
ATOM	2813	CD	LYS B		27.653 27.120	53.705 53.756	64.244 62.837	1.00	0.82	В	C
ATOM	2814	CE NZ	LYS B		25.925	52.887	62.690	1.00	2.75	В	N
ATOM ATOM	2815 2816	C	LYS B		29.523	57.281	63.020	1.00	0.73	В	C
ATOM	2817	ŏ	LYS B		30.649	56.867	62.786	1.00	3.35	B B	o N
ATOM	2818	N	THR B		28.691	57.701	62.075	1.00 1.00	0.09 0.00	В	Č
ATOM	2819	CA	THR B		29.104	57.712 58.432	60.676 59.797	1.00	0.00	В	Ċ
MOTA	2820	CB OC1	THR B		28.080 26.801	57.825	59.979	1.00	0.00	В	0
ATOM ATOM	2821 2822	CG2			28.460	58.320	58.325	1.00	0.00	В	C
ATOM	2823	C	THR B		30.479	58.356	60.464	1.00	0.46	B B	C
ATOM	2824	0	THR B		31.006	58.355	59.350	1.00 1.00	0.63 0.09	В	N
MOTA	2825	N	LEU B		31.050 32.371	58.903 59.518	61.536 61.485	1.00	0.62	В	С
ATOM	2826 2827	CA CB	LEU B		32.363	60.865	62.211	1.00	0.00	В	C
ATOM ATOM	2828	CG	LEU B		31.629	62.014	61.505	1.00	0.14	В	C C
ATOM	2829	CD1	LEU B		31.713	63.267	62.363	1.00 1.00	0.35 0.00	B B	Ċ
ATOM	2830		LEU B		32.233 33.422	62.263 58.590	60.130 62.095	1.00	0.56	В	Č
MOTA	2831	С О	LEU B		34.619	58.790	61.921	1.00	1.08	В	0
ATOM ATOM	2832 2833	N	LEU B		32.980	57.577	62.825	1.00	1.32	В	N
ATOM	2834	CA	LEU B		33.925	56.639	63.386	1.00	2.02 2.40	B B	C C
MOTA	2835	CB	TEO B		33.261 33.204	55.732 56.317	64.415 65.823	1.00	2.85	В	č
ATOM	2836 2837	CG	LEU B		32.685	55.276	66.792	1.00	2.27	В	С
ATOM ATOM	2838	CD2			34.588	56.777	66.246	1.00	2.47	В	C
ATOM	2839	С	LEU E	670	34.475	55.810	62.237	1.00 1.00	2:95 3.88	B B	ŏ
ATOM	2840	0	LEU E		35.564 33.721	55.245 55.740	62.340 61.140	1.00	3.57	В	N
ATOM ATOM	2841 2842	N CA	LEU E		34.161	54.987	59.972	1.00	4.54	В	C
ATOM	2843	CB	LEU E		33.036	54.840	58.955	1.00	4.10	B B	C
ATOM	2844	CG	TEO E		33.498	54.188 53.549	57.642 56.940	1.00 1.00	5.62 5.52	В	č
ATOM	2845 2846	CD1 CD2			32.300 34.205	55.215	56.743	1.00	4.90	В	C
ATOM ATOM	2847	C	LEU E		35.312	55.701	59.304	1.00	5.01	В	C
ATOM	2848	0	LEU E		36.373	55.115	59.061	1.00	3.26 5.62	B B	N
ATOM	2849	N	LEU E		35.067 36.037	56.973 57.853	58.992 58.342	1.00	3.54	В	C
ATOM	2850 2851	CA CB	LEU E		35.385	59.195	58.025	1.00	1.02	В	C
ATOM ATOM	2852	CG	LEU F		34.143	59.180	57.146	1.00	2.07	В	C
ATOM	2853	CD1			33.586	60.596	57.067	1.00 1.00	1.51 2.88	B B	č
MOTA	2854	CD2			34.487 37.268	58.641 58.109	55.761 59.198	1.00	2.14	В	č
ATOM	2855 2856	C O	LEU I		38.389	58.056	58.722	1.00	1.65	В	0
ATOM ATOM	2857	N	SER I		37.050	58.387	60.469	1.00	0.24	В	N
ATOM	2858	CA	SER E	3 673	38.149	58.677	61.352	1.00	0.51 4.12	B B	C
MOTA	2859	CB	SER I		37.621 36.965	58.994 60.253	62.754 62.800	1.00	5.79	В	ō
MOTA	2860 2861	OG C	SER I	673	39.225	57.606	61.428	1.00	0.36	В	C
MOTA MOTA	2862	ŏ		673	39.317	56.873	62.418	1.00	2.38	В	0
ATOM	2863	N		B 674	40.039	57.538	60.375	1.00 1.00	0.22	B B	N C
ATOM	2864	CA		B 674	41.180 40.922	56.619 55.253	60.239 60.891	1.00	0.00	В	č
ATOM	2865 2866	CB OG		B 674 B 674	41.776	55.056	62.011	1.00	0.00	В	0
ATOM ATOM	2867	C		B 674	41.480	.56.446	58.759	1.00	0.13	В	C
ATOM	2868	0	SER I	B 674	40.626	56.017	57.989	1.00	0.00 0.96	B B	O N
ATOM	2869	N		B 675	42.698 43.151	56.809 56.728	58.370 56.984	1.00	2.58	В	Ċ
MOTA	2870 2871	CA CB	VAL I	В 675 В 675	43.304	58.133	56.382	1.00	4.64	В	C
MOTA MOTA	2872		VAL		43.120	58.095	54.873	1.00	6.17	В	C
ATOM	2873	CG2	VAL 1	B 675	42.334	59.082	57.052	1.00	7.58 1.31	B B	C
MOTA	2874	C		B 675	44.534 45.200	56.100 56.042	56.974 58.004	1.00	3.84	В	ŏ
ATOM	2875 2876	O N		B 675 B 676	44.980	55.591	55.822	1.00	0.53	В	N
ATOM ATOM	2877	CD		B 676	44.262	55.052	54.657	1.00	0.00	B B	C
ATOM	2878	CA	PRO	B 676	46.326	55.025	55.900	1.00	0.02	D.	

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ATOM	2879	СВ	PRO B	676	46.426	54.191	54.623		0.25 0.00	B B	C
ATOM	2880	CG	PRO B		45.017	53.767 56.222	54.389 55.896		0.38	В	č
ATOM	2881	_	PRO B		47.269 47.073	57.157	55.129		0.00	В	0
ATOM ATOM	2882 2883		PRO B LYS B		48.272	56.203	56.766		2.40	В	N C
ATOM	2884		LYS B		49.228	57.302	56.855	1.00	3.88 2.58	B B	Č
ATOM	2885	_	LYS B		50.481	56.864 57.970	57.616 58.354		2.90	В	Č
ATOM	2886		LYS B LYS B		51.216 52.129	57.384	59.445	1.00	1.94	В	С
MOTA MOTA	2887 2888		LYS B		53.421	56.836	58.893	1.00	1.20	В	C N
ATOM	2889		LYS B		53.194	56.035	57.676	1.00	1.15 4.91	B B	Č
ATOM	2890	-	LYS B		49.585 50.097	57.719 58.803	55.446 55.226	1.00	5.06	В	0
ATOM	2891	-	LYS B ASP B		49.331	56.836	54.492	1.00	6.47	В	N
ATOM ATOM	2892 2893		ASP B		49.570	57.152	53.102	1.00	8.82	B B	C C
ATOM	2894		ASP B	678	49.808	55.888	52.281 52.576	1.00 1.00 1	9.66	В	č
MOTA	2895	CG	ASP B		51.142 52.171	55.255 55.945	52.410	1.00	9.32	В	0
MOTA	2896 2897		ASP B		51.158	54.074	52.978	1.00 1		В	0
ATOM ATOM	2898	C	ASP E		48.267	57.812	52.708	1.00	9.42	B B	С О
ATOM	2899	0	ASP B		47.857	58.755	53.363 51.673	1.00	9.36	В	N
MOTA	2900	N	GLY E		47.595 46.345	57.322 57.941	51.279	1.00	8.28	В	C
MOTA MOTA	2901 2902	CA C	GLY E		45.522	57.086	50.347	1.00	8.41	B B	C O
ATOM	2903	ō	GLY E	679	46.001	56.670	49.296 50.729	1.00 1.00	8.68 7.98	В	N
MOTA	2904	N	LEU E		44.279 43.385	56.820 56.010	49.913	1.00	7.83	В	С
ATOM	2905 2906	CA CB	LEU E		41.935	56.215	50.365	1.00	4.74	В	C
MOTA ATOM	2907	CG	LEU E		41.623	56.333	51.861	1.00	4.65 4.10	B B	C
ATOM	2908		LEU E		40.157	56.660 55.048	52.056 52.563	1.00 1.00	3.63	B	č
ATOM	2909		LEU I		41.973 43.522	56.445	48.452	1.00	7.74	В	C
ATOM ATOM	2910 2911	0	LEU I		43.769	57.619	48.177	1.00	7.99	В	O N
ATOM	2912	N	LYS I	B 681	43.373	55.512	47.515 46.102	1.00 1.00	7.37 5.39	B B	Ĉ
ATOM	2913	CA	LYS I		43.465 43.361	55.862 54.619	45.214	1.00	3.99	В	C
MOTA	2914 2915	CB CG	LYS I		44.701	53.950	44.891	1.00	3.05	В	C
ATOM ATOM	2916	CD	LYS		45.104	52.902	45.924	1.00 1.00	1.07	B B	c
MOTA	2917	CE	LYS		44.229 44.242	51.667 51.147	45.820 44.431	1.00	0.00	В	N
ATOM	2918 2919	NZ C	LYS I		42.345	56.819	45.730	1.00	4.35	В	C
ATOM ATOM	2920	ŏ	LYS		42.131	57.098	44.556	1.00	5.24 2.35	B B	N O
ATOM	2921	N	SER		41.625	57.319 58.233	46.727 46.470	1.00 1.00	1.78	В	Ċ
MOTA	2922	CA CB	SER :		40.528 39.201	57.482	46.520	1.00	1.42	В	C
ATOM ATOM	2923 2924	OG	SER		39.288	56.225	45.882	1.00	0.00	B B	C
MOTA	2925	C	SER		40.499	59.349	47.491 47.743	1.00 1.00	2.31 2.40	В	ŏ
ATOM	2926	0	SER		39.452 41.647	59.927 59.645	48.086	1.00	2.71	В	N
ATOM ATOM	2927 2928	N CA	GLN		41.743	60.696	49.095	1.00	2.35	В	C
ATOM	2929	CB	GLN	в 683	43.212	61.071	49.319 50.536	1.00 1.00	0.39 0.26	B B	č
MOTA	2930	CG	GLN		43.466 43.122	61.927 61.208	51.822	1.00	1.21	В	С
MOTA MOTA	2931 2932	CD OE1	GLN GLN	B 683	43.237	61.771	52.910	1.00	0.85	B B	O N
ATOM	2933		GLN	в 683	42.703	59.955	51.709 48.695	1.00 1.00	0.24 2.85	8	Č
MOTA	2934	С		B 683	40.944 40.115	61.945 62.436	49.466	1.00	2.53	В	0
MOTA	2935 2936	N O		В 683 В 684	41.201	62.454	47.489	1.00	2.97	В	N
ATOM ATOM	2937	CA		в 684	40.522	63.642	46.977	1.00	3.54 3.41	B B	C
ATOM	2938	CB		В 684	40.710 42.167	63.741 63.800	45.467 45.049	1.00	6.29	В	С
ATOM	2939 2940	CD		B 684 B 684	42.434	63.049	43.754	1.00	7.77	В	C
atom atom	2941	OE1	GLU	B 684	41.998	61.876	43.651	1.00	7.69 8.64	B	0
MOTA	2942	OE2	GLU	в 684	43.086		42.850 47.307	1.00	4.17	В	č
ATOM	2943	C		B 684 B 684	39.058 38.448	64.381	47.907		2.88	В	0
atom Atom	2944 2945	O N		B 685	38.496	62.367	46.913	1.00	6.54	В	N C
ATOM	2946	CA	LEU	B 685	. 37.102		47.203 46.641		8.85 11.58	B B	č
ATOM	2947	CB		B 685	36.667 36.469				14.23	. В	С
ATOM .	2948 2949	CG CDI		В 685 В 685	37.813	60.677	44.385	1.00	15.68	В	C
atom atom	2950			в 685	35.786	59.261			16.24 8.93	B B	C
ATOM	2951	С	LEU	B 685	36.952		48.719 49.269		8.87	В	0
MOTA	2952	N O		B 685 B 686	36.509 37.352			1.00	8.24	В	Ŋ
ATOM ATOM	2953 2954	N CA		B 686	37.240	60.964	50.842		7.97	B B	C
MOTA	2955	CB	PHE	в 686	38.464	60.268			8.03 8.39	B	c
ATOM	2956	CG	PHE	B 686	38.525 37.489					В	С
ATOM ATOM	2957 2958			B 686 B 686	39.602	60.941	53.566	1.00	8.77	В	C
ATOM	2959			в 686	37.524		55.088	1.00	8.53	В	C
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ATOM	2960	CE2	PHE B	686	39.644	61.038	54.959	1.00	8.39	В	C
ATOM	2961	CZ	PHE B		38.606	60.534	55.717	1.00	8.56	B B	C
ATOM	2962	C	PHE B		37.024	62.303	51.576	1.00	7.17 6.33	В	ŏ
ATOM	2963	0	PHE B		36.071	62.450	52.355 51.330	1.00	6.64	В	N
ATOM	2964	N	ASP B		37.915	63.265 64.587	51.330	1.00	5.98	В	C
ATOM	2965	CA	ASP B		37.845	65.591	51.248	1.00	6.99	В	С
ATOM	2966	CB	ASP B		38.769	65.222	51.338	1.00	8.70	В	С
ATOM	2967	CG	ASP B		40.237 40.694	64.852	52.443		10.19	В	0
ATOM	2968		ASP B		40.930	65.327	50.302		10.15	В	0
ATOM	2969		ASP B		36.436	65.164	51.945	1.00	5.21	В	С
ATOM	2970	C	ASP B		35.798	65.333	52.989	1.00	2.60	В	0
ATOM	2971 2972	O N	GLU B		35.979	65.484	50.736	1.00	6.03	В	N
ATOM	2972	CA	GLU B		34.665	66.065	50.522	1.00	5.79	В	C
ATOM ATOM	2974	CB	GLU B		34.421	66.276	49.023	1.00	6.69	B B	C
ATOM	2975	CG	GLU B		34.959	65.150	48.165	1.00	9.91 12.88	В	č
ATOM	2976	CD	GLU B		35.014	65.493	46.682		14.18	В	ŏ
MOTA	2977		GLU B		33.931	65.733	46.085 46.118		14.35	В	0
ATOM	2978		GLU B		36.139	65.516 65.225	51.132	1.00	5.08	В	С
ATOM	2979	С	GLU B		33.560 32.607	65.778	51.673	1.00	5.28	В	0
MOTA	2980	0	GLU B		33.688	63.901	51.072	1.00	4.04	В	N
ATOM	2981	N	ILE B		32.660	63.036	51.634	1.00	5.68	В	C
ATOM	2982	CA CB	ILE B		32.717	61.591	51.003	1.00	8.39	В	C
MOTA	2983 2984		ILE B		34.100	61.023	51.107	1.00	9.31	В	C
MOTA MOTA	2985		ILE B		31.696	60.660	51.683	1.00	7.28	B B	C
ATOM	2986		ILE B		31.538	59.318	51.001	1.00	5.49	В	c
ATOM	2987	C	ILE B		32.742	62.983	53.163	1.00	5.53 5.75	В	ō
ATOM	2988	0	ILE E		31.799	62.567	53.832	1.00	5.70	В	N
ATOM	2989	N	ARG E		33.862	63.418	53.721 55.172	1.00	5.67	В	С
MOTA	2990	CA	ARG E		34.008 35.470	63.430 63.203	55.572	1.00	4.91	В	С
ATOM	2991	CB	ARG E		35.798	63.596	57.013	1.00	3.32	В	С
MOTA	2992	CG	ARG E		37.019	62.850	57.542	1.00	1.66	В	C
ATOM	2993 2994	CD NE	ARG E		37.494	63.386	58.812	1.00	0.00	В	N
ATOM ATOM	2995	CZ	ARG E		38.290	64.444	58.918	1.00	0.00	В	C N
ATOM	2996		ARG E		38.710	65.078	57.831	1.00	0.00	B B	N
ATOM	2997		ARG E		38.656	64.873	60.116	1.00	0.00 6.61	В	C
ATOM	2998	С	ARG E		33.526	64.769	55.710	1.00	6.73	В	ō
ATOM	2999	0	ARG E		32.605	64.831	56.530 55.237	1.00	7.37	В	N
ATOM	3000	N	MET I		34.160	65.840 67.189	55.654	1.00	8.11	В	С
MOTA	3001	CA		691	33.806 34.579	68.209	54.814	1.00	9.61	В	С
ATOM	3002	CB	MET H		36.082	68.186	55.027		12.72	В	C
ATOM	3003 3004	CG SD	MET I		37.006	69.163	53.800		14.69	В	s
ATOM ATOM	3004	CE	MET I		38.704	68.671	54.198		13.40	В	C C
ATOM	3006	č	MET I		32.301	67.399	55.489	1.00	7.30	B B	ŏ
ATOM	3007	o	MET I	3 691	31.680	68.170	56.229	1.00	6.23 7.04	В	N
ATOM	3008	N	THR I		31.725	66.681	54.526 54.229	1.00		B	C
ATOM	3009	ÇA	THR I		30.302	66.770 66.380	52.779	1.00		В	С
MOTA	3010	CB		B 692	29.999 28.728	66.923	52.406	1.00		В	0
ATOM	3011		L THR I		29.937	64.849	52.628	1.00		В	Ç
MOTA	3012 3013	CG		B 692	29.387	65.931	55.116	1.00		В	c
MOTA	3013	Ö		B 692	28.237	65.694	54.772	1.00		В	0
ATOM	3015	Ŋ	TYR	B 693	29.893	65.443	56.234	1.00		В	N
ATOM ATOM	3016	CA	TYR	В 693	29.037	64.702	57.141	1.00		B B	c
ATOM	3017	CB		в 693	29.514	63.256		1.00		В	č
ATOM	3018	CG		В 693	28.643	62.307	56.567	1.00		В	Č
MOTA	3019	CD:	1 TYR	в 693	27.384	61.976 61.257		1.00		В	С
ATOM	3020	CE	1 TYR	B 693	26.509 29.009	61.257		1.00		В	Ç
ATOM	3021	CD	2 TYR	B 693	29.009	61.162		1.00		В	С
ATOM	3022		2 TYR	в 693 В 693	26.889	60.859		1.00	0.00	В	C
MOTA	3023 3024	CZ OH		в 693	25.995	60.178	54.226	1.00		В	0
MOTA MOTA	3024	C		B 693	29.128	65.496		1.00		В	C
ATOM	3026			В 693	28.159	65.638		1.00		B B	O N
ATOM	3027	N		B 694	30.313	66.044		1.00		В	C
ATOM	3028	CA	ILE	B 694	30.544	66.881		1.00		В	č
T COM	3029			B 694	31.909		,59.699 61.093	1.00		В	č
MOTA	3030		2 ILE		32.413	67.878 66.646		1.00		В	С
MOTA	3031		1 ILE		32.893 34.271	67.251		1.00		В	Ç
ATOM	3032		1 ILE	B 694 B 694	29.446	67.944		1.00	8.08	В	C
MOTA	3033			в 694 В 694	28.719	68.163		1.00	8.70	В	0
MOTA	3034 3035			B 695	29.323	68.584	58.566	1.00		В	Ŋ
ATOM ATOM	3036			B 695	28.304	69.604				В	C
ATOM	3037			B 695	28.276	70.045		1.00		B B	C
MOTA	3038		LYS	B 695	27.390	71.261				В	Č
ATOM	3039	CD	LYS	B 695	27.419	71.711				В	Č
ATOM	3040	CE	LYS	в 695	28.729	72.376	54.794	1.00		_	

								- 00	5.33	В	N
ATOM	3041	NZ	LYS B 69	95	28.593	73.086	53.478	1.00			č
	_		LYS B 69		26.936	69.051	58.771	1.00	6.82	В	
ATOM	3042	_			26.113	69.764	59.349	1.00	7.82	В	0
ATOM	3043			95			58.467	1.00	4.95	В	N
MOTA	3044	N	GLU B 69	96	26.701	67.778			4.52	В	C
ATOM	3045	CA	GLU B 69	96	25.440	67.141	58.803	1.00			
	3046		GLU B 6	96	25.348	65.764	58.154	1.00	5.55	В	C
ATOM					23.935	65.246	58.008	1.00	5.27	В	C
ATOM	3047			96			57.143	1.00	5.89	В	С
ATOM	3048	CD	GLU B 6	96	23.094	66.164			5.79	В	0
ATOM	3049	OE1	GLU B 6	96	23.575	66.553	56.052	1.00			
				96	21.957	66.493	57.552	1.00	5.89	В	0
MOTA	3050				25.357	67.006	60.312	1.00	4.52	В	С
ATOM	3051	С		96			60.877	1.00	4.75	В	0
MOTA	3052	0	GLU B 6	96	24.267	66.951			-	В	N
MOTA	3053	N	LEU B 6	97	26.515	66.927	60.964	1.00	4.74		
		CA		97	26.560	66.837	62.422	1.00	3.38	В	С
ATOM	3054				27.911	66.278	62.896	1.00	2.21	В	С
MOTA	3055	CB		97				1.00	1.22	В	С
ATOM	3056	CG	LEU B 6	97	28.264	66.292	64.394			B	C
ATOM	3057	CD1	LEU B 6	97	27.194	65.613	65.199	1.00	0.00		
				97	29.589	65.604	64.617	1.00	0.45	В	С
ATOM	3058				26.380	68.273	62.902	1.00	3.38	В	С
ATOM	3059	С		97				1.00	3.61	В	0
ATOM	3060	0	LEU B 6	97	25.852	68.518	63.986			В	N
MOTA	3061	N	GLY B 6	98	26.822	69.213	62.066	1.00	2.53		
				98	26.703	70.626	62.370	1.00	4.48	В	С
MOTA	3062	CA			25.299	71.122	62.057	1.00	4.73	В	С
ATOM	3063	С		98				1.00	4.58	В	0
MOTA	3064	0	GLY B 6	98	25.091	72.232	61.548			В	N
ATOM	3065	N	LYS B 6	99	24.328	70.269	62.355	1.00	3.99		
	3066	CA	LYS B 6		22.921	70.569	62.150	1.00	4.96	В	Ç
MOTA					22.481	70.113	60.762	1.00	5.53	В	С
MOTA	3067	CB		99				1.00	4.15	В	C
ATOM	3068	CG	LYS B 6	99	23.143	70.858	59.621			В	C
ATOM	3069	CD	LYS B 6	99	22.555	70.434	58.282	1.00	3.04		
		ÇE		99	23.091	71.310	57.168	1.00	3.26	В	C
ATOM	3070				22.909	72.756	57.502	1.00	2.13	В	N
MOTA	3071	NZ	LYS B 6				63.219	1.00	5.61	В	С
MOTA	3072	C	LYS B 6	99	22.227	69.752				В	Ō
ATOM	3073	0	LYS B 6	99	21.105	70.032	63.632	1.00	5.25		
				00	22.957	68.739	63.665	1.00	6.56	В	N
ATOM	3074	N_			22.521	67.801	64.684	1.00	5.10	В	С
MOTA	3075	CA		00			64.743	1.00	5.71	В	С
MOTA	3076	CB	ALA B 7	700	23.506	66.624				В	С
MOTA	3077	С	ALA B 7	700	22.432	68.482	66.042	1.00	3.16		ŏ
		ŏ		00	21.549	68.168	66.845	1.00	3.56	В	
MOTA	3078				23.368	69.394	66.293	1.00	0.09	В	N
ATOM	3079	N		701			67.540	1.00	0.00	В	C
ATOM	3080	CA	ILE B 7	701	23.408	70.142			0.00	В	Ç
ATOM	3081	CB	ILE B 7	701	24.775	70.757	67.782	1.00			č
ATOM	3082	CG2		701	24.771	71.501	69.107	1.00	0.00	В	
				701	25.848	69.665	67.736	1.00	0.00	В	С
MOTA	3083	CG1			27.263	70.193	67.810	1.00	0.00	В	С
ATOM	3084	CD1		701				1.00	0.27	В	С
MOTA	3085	С	ILE B 7	701	22.412	71.263	67.383				
ATOM	3086	0	ILE B 7	701	21.834	71.747	68.352	1.00	0.51	В	
				702	22.236	71.679	66.135	1.00	0.95	В	
MOTA	3087	N_			21.279	72.713	65.802	1.00	0.00	В	С
ATOM	3088	CA		702			64.273	1.00	0.00	В	С
ATOM	3089	CB	VAL B 7	702	21.210	72.924			0.00	В	
ATOM	3090	CG1	VAL B	702	19.961	73.672	63.895	1.00			
	3091	CG2		702	22.429	73.686	63.815	1.00	0.00	В	_
ATOM					19.967	72.155	66.313	1.00	0.00	В	С
MOTA	3092	Ç		702	19.546	72.489	67.411	1.00	0.85	В	0
ATOM	3093	0		702				1.00	0.31	В	N
MOTA	3094	N	LYS B	703	19.366	71.267	65.518			В	
ATOM	3095	CA	LYS B	703	18.096	70.604	65.823	1.00	1.08		_
				703	18.094	69.201	65.229	1.00	0.26	В	
ATOM	3096	CB			18.257	69.136	63.735	1.00	0.13	В	C
ATOM	3097	CG		703			63.033	1.00	0.00	В	C
MOTA	3098	CD	LYS B		16.931	69.311				B	
ATOM	3099	CE	LYS B		15.996	68.144	63.305	1.00	0.00		
		NZ	LYS B		14.704	68.283	62.569	1.00	1.13	B	
ATOM	3100				17.832	70.485	67.315	1.00	2.26	В	
MOTA	3101	C	LYS B			71.013	67.842	1.00	2.34	В	0
ATOM	3102	0	FA2 B .		16.847				2.65	E	
MOTA	3103	N	ARG B	704	18.728	69.779	67.990	1.00			
	3104	CA	ARG B		18.611	69.547	69.413	1.00	3.64	Ė	
ATOM					19.887	68.918	69.924	1.00	0.40	E	
MOTA	3105	CB	ARG B			67.666	69.178	1.00	1.83	E	C
ATOM	3106	CG	ARG B		20.220				2.99	Ē	
ATOM	3107	CD	ARG B	704	19.070	66.659	69.305	1.00			
	3108	NE	ARG B		18.300	66.463	68.077	1.00	3.97	E	_
MOTA					17.032	66.071	68.053	1.00	5.49	E	
ATOM	3109	CZ	ARG B				69.188	1.00	5.67	E	3 N
MOTA	3110		ARG B		16.391	65.834			6.40	E	
ATOM	3111	NH2	ARG B	704	``16.409	65.932		1.00			
	3112	C	ARG B		18.303	70.795	70.198	1.00	5.20	E	
ATOM					18.081	70.706	71.403	1.00	6.25	Ξ	
MOTA	3113	0	ARG B			71.945	69.512	1.00	7.79	E	3 N
ATOM	3114	N	GLU B		18.300				10.11		3 C
ATOM	3115	CA	GLU B	705	18.016	73.257	70.097				
	3116		GLU B		18.441	73.292	71.559	1.00	8.13		
ATOM					19.905	72.995	71.770	1.00	4.29	I	3 C
MOTA	3117	CG	GLU B				73.220	1.00	2.54	7	3 C
ATOM	3118		GLU B		20.237	72.854			1.25		3 0
ATOM	3119		GLU B	705	21.444	72.769	73.529	1.00			
			GLU B		19.289	72.821	74.040	1.00	1.18		3 0
MOTA	3120				18.703	74.415	69.358	1.00	12.33	1	в С
Mota	3121	С	GLU B	100	10.103						

T Move	2122	0 CTII	в 705	18.041	75.154	68.615	1.00 1	3.95	В	0
ATOM ATOM	3122 3123	O GLU		20.018	74.573	69.585	1.00 1		В	N
ATOM	3124	CA GLY		20.818	75.636	68.965	1.00 1		В	C
MOTA	3125	C GLY		21.857	76.300	69.884	1.00 1		B B	C O
ATOM	3126		в 706	22.468	75.630	70.715	1.00 1		В	N
ATOM	3127	n Asn	в 707	22.061	77.612	69.721	1.00 1	9.37	В	Ċ
ATOM	3128	CA ASN		22.995	78.429	70.522		4.43	В	č
ATOM	3129		в 707	22.807	78.163	72.024 72.907		1.14	B	č
ATOM	3130	CG ASN		23.283	79.332	74.138		0.00	В	ō
ATOM	3131	OD1 ASN		23.256	79.231 80.445	72.285		0.00	В	N
MOTA	3132	ND2 ASN		23.703 24.453	78.209	70.168		0.22	В	С
ATOM	3133	C ASN O ASN		25.072	77.304	70.704		9.72	В	0
ATOM	3134 3135	O ASN N SER		24.999	79.053	69.287		1.07	В	N
ATOM ATOM	3136	CA SER		26,402	78.946	68.848		0.55	В	c
ATOM	3137	CB SER		26.818	80.153	68.011		0.18	В	C
ATOM	3138	OG SER		28.167	80.022	67.597		9.62	B B	0
ATOM	3139	C SER	в 708	27.417	78.766	69.964	1.00 1.00 1	9.98	В	Ö
ATOM	3140	O SER		28.271	77.897	69.871		8.07	В	N
ATOM	3141	N SER	_	27.351	79.589 79.431	71.007 72.128		6.88	В	С
MOTA	3142	CA SER		28.280 28.008	80.479	73.223		5.22	В	С
ATOM	3143	CB SER		28.387	81.783	72.807		0.00	В	0
ATOM	3144 3145	OG SER		28.102	78.006	72.681	1.00	7.90	В	C
ATOM ATOM	3145	O SER		28.894	77.539	73.494		7.38	В	0
ATOM	3147	N GLN		27.035	77.344	72.231	1.00	9.50	В	Ŋ
ATOM	3148	CA GLN		26.716	75.960	72.592	1.00 1		В	C
ATOM	3149	CB GLN	B 710	25.340	75.863	73.308	1.00 1		B B	c
ATOM	3150	CG GLN		25.315	76.239	74.818	1.00 1		В	č
ATOM	3151		B 710	24.160	75.571	75.621 76.811	1.00 1		В	ŏ
ATOM	3152	OE1 GLN		23.957 23.416	75.858 74.681	74.969	1.00 1		В	Ŋ
ATOM	3153		В 710 В 710	26.715	75.108	71.288	1.00 1		В	C
MOTA	3154		В 710	26.650	73.871	71.334	1.00 1	0.61	В	0
ATOM	3155 3156		В 711	26.789	75.790	70.139	1.00	9.99	В	N
ATOM ATOM	3157		В 711	26.816	75.156	68.811	1.00	9.16	В	C
ATOM	3158		B 711	26.449	76.162	67.702	1.00	8.67	В	C
ATOM	3159	CG ASN	B 711	24.950	76.295	67.491	1.00 3		B B	Ö
ATOM	3160	OD1 ASN		24.496	77.064	66.639	1.00 1	9.68	В	N
MOTA	3161	ND2 ASN		24.173	75.540	68.260 68.535	1.00	8.24	В	Č
MOTA	3162	C ASN		28.224	74.648 73.549	68.002	1.00	9.11	В	0
ATOM	3163		В 711 В 712	28.421 29.195	75.490	68.869	1.00	6.81	В	N
ATOM	3164	N TRP		30.594	75.169	68.697	1.00	5.94	В	С
ATOM ATOM	3165 3166		B 712	31.303	76.280	67.901	1.00	3.07	В	C
ATOM	3167	CG TRP		31.301	76.034	66.393	1.00	3.11	В	C
ATOM	3168	CD2 TRP	в 712	30.732	76.868	65.375	1.00	1.42	B B	Č
ATOM	3169	CE2 TRP		30.958	76.227	64.130 65.391	1.00 1.00	2.04	В	Č
ATOM	3170		В 712	30.054	78.094 74.952	65.735	1.00	2.07	В	Ċ
ATOM	3171	CD1 TRP		31.835 31.631	75.063	64.381	1.00	0.40	В	N
ATOM	3172		В 712 В 712	30.530	76.767	62.918	1.00	0.00	В	С
MOTA	3173 3174	CZ2 TRP		29.624	78.638	64.174	1.00	2.40	В	c
ATOM ATOM	3175		В 712	29.867	77.970	62.955	1.00	1.97	В	C
ATOM	3176		В 712	31.184	74.983	70.095	1.00	6.35	B B	C
ATOM	3177	O TRP	В 712	32.350	75.276	70.346	1.00	5.67	В	N
ATOM	3178	N GLN	гв 713	30.337	74.480	70.996	$1.00 \\ 1.00$	7.11 6.46	В	Ċ
ATOM	3179		В 713	30.682	74.192 75.111	72.397 73.329	1.00	4.90	В	Č
ATOM	3180		В 713	29.889 30.613	75.478	74.624	1.00	4.23	В	С
ATOM	3181		В 713 В 713	30.752	74.322	75.597	1.00	2.92	В	Ç
ATOM	3182 3183		В 713	31.671	74.298	76.421	1.00	0.00	В	0
MOTA MOTA	3184		в 713	29.827	73.366	75.520	1.00	2.38	В	N
ATOM	3185		В 713	30.338	72.717	72.706	1.00	6.53	В	C
ATOM	3186		B 713	30.963	72.062	73.544	1.00	6.06	B B	O N
ATOM	3187		B 714	29.323	72.209	72.023	1.00	5.38 5.07	В	Č
ATOM	3188		B 714	28.914	70.829	72.191	1.00	6.07	В	č
ATOM	3189		B 714	27.397	70.688	72.054 72.499	1.00 1.00	6.36	В	č
ATOM	3190		B 714	26.896 25.455	69.335 69.114	72.131	1.00	5.08	В	C
ATOM	3191	· ·	Б В 714 Б В 714:	25.455 25.107	67.711	72.311	1.00	2.45	B.	N
ATOM	3192 3193		B 714	25.072	67.098	73.487	1.00	2.10	В	С
ATOM	3193	NH1 ARG		25.356	67.762	74.601	1.00	0.62	В	N
ATOM ATOM	3195		B 714	24.768	65.814	73.541	1.00	0.41	В	N
ATOM	3196	C ARG	3 B 714	29.598	70.095	71.067	1.00	3.98	B B	C
ATOM	3197	O ARG	3 B 714	30.019	68.956	71.213	1.00	3.65 3.76	В	N
ATOM	3198	N PHE	Е В 715	29.706	70.759	69.929	1.00 1.00	3.76	B	Č
ATOM	3199		E B 715	30.384	70.139 71.064	68.817 67.630	1.00	1.29	В	Č
ATOM	3200		E B 715 E B 715	30.523 31.399	70.505	66.567	1.00	0.25	В	С
ATOM	3201			30.858	69.805	65.513	1.00	0.00	В	С
MOTA	3202	ODT EUR	13	-3.535						

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									0.00	В	С
B IFOM	3203	CD2	PHE B	715	32.780	70.655	66.639	1.00	0.82		
ATOM			PHE B		31.674	69.261	64.539	1.00	0.03	В	С
MOTA	3204					70.113	65.669	1.00	0.11	В	С
MOTA	3205	CE2	PHE B	715	33.610		64.615	1.00	0.16	В	С
ATOM	3206	CZ :	PHE B	715	33.053	69.415				В	Č
	3207		PHE B	715	31.761	69.854	69.333	1.00	4.65		
MOTA		_	PHE B		32.459	68.983	68.829	1.00	3.77	В	0
MOTA	3208					70.623	70.324	1.00	6.63	В	N
ATOM	3209		TYR B		32.182				7.92	В	С
ATOM	3210	CA '	TYR B	716	33.486	70.349	70.872	1.00			
			TYR B		33.990	71.465	71.761	1.00	6.92	В	С
MOTA	3211				35.299	71.058	72.378	1.00	8.08	В	Ç
MOTA	3212		TYR B				73.677	1.00	7.50	В	С
MOTA	3213	CD1	TYR B	716	35.361	70.563				В	С
	3214		TYR B		36.554	70.102	74.211	1.00	7.63		
MOTA		-			36.469	71.081	71.629	1.00	7.55	В	С
MOTA	3215	-	TYR B			70.621	72.155	1.00	8.05	В	С
ATOM	3216	CE2	TYR B	716	37.660			1.00	8.52	В	С
ATOM	3217	CZ	TYR B	716	37.694	70.136	73.444			B	ō
	3218		TYR B	716	38.883	69.710	73.967	1.00	9.86		
ATOM					33.386	69.075	71.696	1.00	7.95	В	С
MOTA	3219	_	TYR B			68.132	71.494	1.00	10.20	В	0
ATOM	3220	0	TYR B	716	34.155				6.46	В	N
ATOM	3221	N	GLN B	717	32.438	69.047	72.626	1.00			
			GLN B		32.243	67.878	73.466	1.00	5.43	В	C
MOTA	3222				31.111	68.150	74.438	1.00	6.05	В	С
MOTA	3223		GLN B				75.397	1.00	4.00	В	С
ATOM	3224		GLN B		31.448	69.250			3.08	В	С
MOTA	3225	CD	GLN E	717	32.885	69.145	75.858	1.00			ŏ
	3226		GLN E		33.397	68.044	76.106	1.00	1.83	В	
MOTA					33.549	70.290	75.976	1.00	3.63	В	N
ATOM	3227		GLN E		_	66.606	72.662	1.00	5.10	В	С
MOTA	3228	С	GLN E		31.968			1.00	5.64	В	0
ATOM	3229	0	GLN E	3 717	32.465	65.535	72.998			В	N
ATOM	3230	N	LEU E		31.182	66.724	71.598	1.00	4.88		
					30.890	65.570	70.759	1.00	4.55	В	С
MOTA	3231	ÇA	LEU E			65.865	69.814	1.00	4.11	В	С
ATOM	3232	CB	TEA E	3 71B	29.726			1.00	3.81	В	С
MOTA	3233	CG	LEU E	3 718	28.323	65.978	70.424			В	Ċ
	3234		LEU E		27.312	66.266	69.310	1.00	3.13		
MOTA			LEU E		27.970	64.693	71.158	1.00	3.26	В	C
ATOM	3235				32.111	65.134	69.946	1.00	4.69	В	С
ATOM	3236	С	LEU E				69.589	1.00	5.53	В	0
ATOM	3237	0	LEU F	3 718	32.229	63.975			4.08	В	N
ATOM	3238	N	THR I	3 719	33.010	66.063	69.634	1.00			č
	3239	CA	THR I		34.216	65.711	68.887	1.00	2.90	В	
MOTA			THR I		34.709	66.871	67.986	1.00	2.25	В	С
MOTA	3240	CB			33.829	67.000	66.867	1.00	0.00	В	0
ATOM	3241		THR I					1.00	1.41	В	C
MOTA	3242	CG2	THR I	3 719	36.118	66.599	67.460			В	С
	3243	C	THR I		35.276	65.340	69.916	1.00	3.68		
ATOM			THR I		36.429	65.050	69.583	1.00	3.77	В	0
ATOM	3244	0			34.854	65.336	71.177	1.00	3.64	В	N
MOTA	3245	N	LYS I				72.278	1.00	4.68	В	С
MOTA	3246	CA	LYS 1	В 720	35.731	64.969			4.92	В	С
ATOM	3247	CB	LYS 1	в 720	35.302	65.690	73.555	1.00			č
	3248	CG	LYS		36.318	65.634	74.661	1.00	4.64	В	
MOTA					37.574	66.396	74.288	1.00	5.28	В	С
MOTA	3249	CD	LYS				75.414	1.00	6.57	В	С
MOTA	3250	CE	LYS :		38.617	66.334		1.00	7.22	В	N
MOTA	3251	NZ	LYS :	в 720	38.118	66.864	76.727			В	Ĉ
	3252	C		в 720	35.567	63.455	72.437	1.00	5.20		
ATOM			LYS		36.549	62.711	72.579	1.00	5.84	В	0
MOTA	3253	0			34.312	63.010	72.401	1.00	5.57	В	N
ATOM	3254	N	LEU				72.511	1.00	5.98	В	С
MOTA	3255	ÇA	LEU	В 721	34.005	61.593			5.57	В	С
ATOM	3256	CB	LEU	В 721	32.514	61.352	72.317	1.00			
	3257	CG	LEU		32.079	59.897	72.465	1.00	6.62	В	C
ATOM					32.392	59.429	73.874	1.00	6.68	В	C
MOTA	3258	CDT	LEU	D 161		59.755	72.188	1.00	5.90	В	С
MOTA	3259	CD2	LEU	B 121	30.603	CO 000		1.00	5.67	В	С
ATOM	3260	С	LEU	в 721	34.770	60.890	71.405			В	ō
ATOM	3261	0	LEU	в 721	35.740	60.193	71.660	1.00	5.59		
		N		B 722	34.330	61.090	70.169	1.00	4.94	В	N
MOTA	3262		7 720	P 722	34.983	60.485	69.015	1.00	2.16	В	С
ATOM	3263	CA		B 722			67.712	1.00	1.76	В	С
ATOM	3264	CB		в 722	34.472	61.102			0.00	В	Ċ
ATOM	3265	CG	LEU	B 722	33.008	60.891	67.372	1.00			č
		CD1	T.FIT	B 722	32.697	61.525	66.045	1.00		В	
MOTA	3266	CDT	1 55	p 722	32.733	59.419	67.326	1.00	0.00	В	С
MOTA	3267		ואמ	B 722		60.676	69.087	1.00		В	С
ATOM	3268	С	LEO	в 722	36.479					В	0
ATOM	3269	0	LEU	В 722	37.231	60.049	68.354	1.00			
	3270	N		в 723	36.917	61.568	69.956	1.00		В	N
MOTA				в 723	38.339	61.795	70.086	1.00		В	С
ATOM	3271	CA	ASP	D 163	38.599	63.220	70.569	1.00		В	С
MOTA	3272	∴CB	ASP	В 723			69.475	1.00		В.	С
MOTA	3273	CG	ASP	в 723-	39.140	64.107				В	ŏ
	3274	ODI	ASP	B 723	38.599	64.029	68.350	1.00			
ATOM		202	Yeb	В 723	40.096	64.875	69.744	1.00		В	0
ATOM	3275		. nor	D 722		60.781	71.050	1.00	0.90	В	С
MOTA	3276	С		В 723	38.929		70.907	1.00		В	0
ATOM	3277	0	ASP	в 723	40.086					В	N
MOTA	3278	N	SER	B 724	38.119	60.373	72.027	1.00		В	
				B 724	38.528	59.388	73.023	1.00			C
MOTA	3279		250	B 724	37.854		74.361	1.00	0.00	В	C
MOTA	3280		SER	D 724				1.00		В	0
MOTA	3281	OG	SER	B 724	36.451			1.00		В	С
MOTA	3282	С	SER	B 724	38.211					В	ō
MOTA	3283		SER	B 724	38.191	57.032	73.402	1.00	, 0.00	-	•
ATOM	3203	-									

				706	38.003	57.763	71.278	1.00	0.88		В	N
MOTA	3284	_	MET E		37.677	56.477	70.651	1.00	2.25		В	С
MOTA	3285		MET E			56.723	69.365	1.00	1.01		В	С
ATOM	3286		MET E		36.884	55.837	69.188	1.00	0.00		В	С
ATOM	3287		MET I		35.673		70.509	1.00	0.00		В	S
ATOM	3288		MET I		34.481	56.042	71.419	1.00	0.00		В	С
ATOM	3289		MET I		34.683	54.584	70.311	1.00	3.98		В	С
ATOM	3290		MET I		38.907	55.632		1.00	4.97		В	0
MOTA	3291	0	MET I	B 725	39.003	54.462	70.705		5.71		В	N
ATOM	3292	N	HIS I	B 726	39.835	56.218	69.559	1.00	6.96		В	Ċ
ATOM	3293	CA	HIS I	в 726	41.058	55.517	69.167	1.00			В	Č
ATOM	3294	CB	HIS I	в 726	42.006	56.457	68.413	1.00	8.10		В	č
ATOM	3295	CG	HIS I	B 726	41.413	57.074	67.183	1.00	8.94		В	¢
ATOM	3296		HIS I		41.818	57.045	65.891	1.00	9.06		В	N
ATOM	3297		HIS I		40.305	57.893	67.219	1.00	9.43			Č
ATOM	3298		HIS !		40.057	58.347	66.002	1.00	9.27		В	N
ATOM	3299		HIS !		40.961	57.847	65.179	1.00	9.37		В	Č
ATOM	3300	C	HIS		41.806	54.931	70.375	1.00	7.08		B B	ŏ
ATOM	3301	ŏ	HIS !		42.576	53.981	70.239	1.00	7.67			N
ATOM	3302	N	GLU :		41.596	55.505	71.552	1.00	6.44		В	Č
ATOM	3303	CA	GLU :		42.271	55.007	72.735	1.00	5.32		В	
ATOM	3304	CB	GLU :		42.583	56.164	73.702	1.00	6.18		В	C
ATOM	3305	CG	GLU :		43.413	57.299	73.079	1.00	8.03		В	C
	3306	CD	GLU		44.439	57.919	74.040	1.00	7.60		В	C
ATOM	3307	OE1	GLU		44.041	58.371	75.136	1.00	8.03		В	0
ATOM	.3308	OE2	GLU		45.645	57.955	73.686	1.00	7.05		В	0
ATOM ATOM	3309	C	GLU		41.436	53.939	73.432	1.00	3.62		В	C
	3310	Ö	GLU	_	41.808	53.434	74.486	1.00	3.55		В	0
ATOM	3311	N	VAL		40.298	53.596	72.846	1.00	2.22		В	N
ATOM	3312	CA	VAL		39.444	52.569	73.433	1.00	0.71		В	C
ATOM	3313	CB	VAL		37.954	52.913	73.303	1.00	0.06		В	C
ATOM	3314		VAL		37.117	51.715	73.658	1.00	0.00		В	C
MOTA	3315	CG2			37.612	54.063	74.230	1.00	0.00		В	C
ATOM	3316	C	VAL		39.715	51.290	72.682	1.00	1.27		В	C
MOTA		ŏ	VAL		40.245	50.335	73.237	1.00	0.00		В	0
ATOM	3317 3318	Ŋ	VAL		39.359	51.303	71.403	1.00	1.98		В	N
ATOM		CA	VAL		39.558	50.176	70.501	1.00	2.75		В	C
ATOM	3319	CB	VAL		39.342	50.624	69.047	1.00	3.17		В	c
MOTA	3320		VAL		39.385	49.446	68.120	1.00	2.91		В	C
ATOM	3321		VAL		38.019	51.345	68.934	1.00	4.71		В	C
MOTA	3322 3323	C	VAL		40.936	49.513	70.633	1.00	1.91		В	C
ATOM	3323	Ö	VAL	_	41.043	48.314	70.399	1.00	2.81		В	0
MOTA		Ŋ	GLU		41.979	50.273	70.994	1.00	0.64		В	N
ATOM	3325 3326	CA	GLU		43.312	49.687	71.182	1.00	0.00		В	c
MOTA		CB	GLU		44.388	50.730	71.535	1.00	0.30		В	C
ATOM	3327 3328	ÇG	GLU		45.844	50.139	71.573	1.00	0.29		В	C
ATOM	3329	CD	GLU		46.697	50.534	72.812	1.00	1.21		В	C
ATOM	3330	OE1			47.872	50.095	72.884	1.00	0.14		В	0
MOTA	3331	OE2			46.211	51.266	73.708	1.00	1.95		В	0
MOTA	3332	C	GLU		43.159	48.774	72.371	1.00	0.00		В	C
ATOM ATOM	3333	ŏ	GLU		43.607	47.629	72.358	1.00	0.00		В	0
	3334	N	ASN		42.524	49.305	73.409	1.00	0.00		В	N
ATOM	3335	CA	ASN		42.291	48.524	74.606	1.00	0.00		В	C
ATOM	3336	CB	ASN		41.718	49.409	75.712	1.00	0.00		В	C
MOTA	3337	CG	ASN		42.754	50.309	76.310	1.00	0.00		В	C
MOTA	3338	OD1			42.729	50.604	77.501	1.00	0.00		В	0
ATOM	3339		ASN		43.678	50.756	75.485	1.00	0.00		В	N
ATOM ATOM	3340	C		В 731	41.376	47.318	74.341	1.00	0.52		В	C
	3341	ŏ		B 731	41.568	46.239	74.901	1.00	0.39		В	0
ATOM ATOM	3342	N		B 732	40.382	47.488	73.486	1.00	1.09		В	N
ATOM	3343	CA	LEU	в 732	39.511	46.376	73.196	1.00	0.92		В	C
ATOM	3344	CB	LEU		38.152	46.865	72.714	1.00	0.49		В	č
ATOM	3345	CG	LEU	B 732	37.438	47.757	73.733	1.00	0.20		В	Č
ATOM	3346	CD1	LEU	B 732	36.011	47.964	73.293	1.00	0.28		В	č
ATOM	3347	CD2	LEU	в 732	37.464	47.132	75.106	1.00	0.00		В	
ATOM	3348	c		B 732	40.185	45.510	72.155	1.00	1.11		В	C
	3349	ō	LEU	в 732	40.225	44.291	72.305	1.00	3.42		В	0
ATOM ATOM	3350	N	LEU	B 733	40.725	46.111	71.099		1.44		В	Ŋ
ATOM	3351	CA	LEU	в 733	41.418		70.111	1.00	2.90		В	C
ATOM	3352	CB	LEU	B 733	42.073		69.034	1.00	2.85		В	C
ATOM	3353	CG	LEU	в 733	41.055	46.857	68.125		5.50		В	
ATOM	3354	CD1	LEU	ъВ 733	41.775	47.732	67.080		4.61	rej)	В	C
ATOM	3355	CD2	LEU	ъ 733	40.174		67.450		5.90		В	C
	3356	C	LEU	в 733	42.476	44.476	70.862		3.78		В	
ATOM	3357	ŏ	LEU	в 733	42.646	43.274	70.643		0.14		В	0
ATOM	3358	И	ASN	В 734	43.174		71.773		5.04		В	Й
ATOM	3359	CA	ASN	В 734	44.176		72.550		4.70		В	C
ATOM	3360		ASN	B 734	45.066	45.449	73.283		2.89		В	C
MOTA	3361		ASN	В 734	46.040		72.353		2.49		В	C
ATOM	3362	OD:	i ASN	В 734	45.656		71.295				В	0 N
ATOM ATOM	3363	ND:	2 ASN	B 734	47.311	46.133					В	С И
MOTA	3364		ASN	В 734	43.465	43.543	73.514	1.00	4.82		В	C
-11-011		-										

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74.701 1.00 4.52
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ATOM
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MOTA
       3366 N
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ATOM
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                 TYR B 735
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MOTA
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MOTA
       3369
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             CD1 TYR B 735
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MOTA
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41.787
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MOTA
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ATOM
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ATOM
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MOTA
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                 TYR B 735
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MOTA
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             С
MOTA
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                 TYR B 735
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MOTA
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       3378
MOTA
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MOTA
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ATOM
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ATOM
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                 CYS B 736
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MOTA
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                                                                 7.85
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                                                  69.706
                 PHE B 737
       3384
MOTA
                                                                 7.06
                                                                                 С
                                                          1.00
                                 42.953
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                 PHE B 737
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MOTA
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                                          41.726
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MOTA
                                                                           В
                                                                                 C
                                                                 5.22
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                                 45.197
                 PHE B 737
ATOM
       3387
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                                                                           В
                                                                                 C
                                                                 5.46
                                 45.576
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                                                  66.861
MOTA
       3388
             CD1 PHE B 737
                                                                                 C
                                                                            В
                                                          1.00
                                                                 5.74
                                          41.345
                                                  69.177
                                 46.172
       3389
             CD2 PHE B 737
ATOM
                                                                                 C
C
                                                                           В
                                                  66.502
                                                          1.00
                                                                 5.11
                                 46.915
                                          41.272
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             CE1 PHE B 737
MOTA
                                                          1.00
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                                                                           В
                                                  68.833
             CE2 PHE B 737
CZ PHE B 737
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ATOM
                                                  67.495
                                                          1.00
                                                                 4.69
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                                 47.889
                                          41.126
MOTA
       3392
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                                                          1.00
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                  PHE B 737
                                 43.738
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ATOM
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                                                  69.145
                  PHE B 737
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MOTA
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                  GLN B 738
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                                          39.827
       3395
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ATOM
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                  GLN B 738
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ATOM
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ATOM
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40.447
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                                                  74.008
                                  46.096
                  GLN B 738
MOTA
       3398
             CG
                                                                            В
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                                                  75.050
                  GLN B 738
ATOM
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                                  47.067
             OE1 GLN B 738
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ATOM
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                                                  76.338
                                                          1.00
                                                                 8.95
                                  46.434
             NE2 GLN B 738
       3401
ATOM
                                                                 6.13
                                          38.363
                                                  72.730
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        3402
             С
0
                  GLN B 738
ATOM
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                  GLN B 738
        3403
ATOM
                                                                                 O
                                9999.0009999.0009999.000 1.00
                                                                 0.00
             OXT GLN B 738
        3404
ATOM
END
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GR 2

```
REMARK coordinates from minimization and B-factor refinement
REMARK refinement resolution: 500.0 - 2.8 A
REMARK starting r= 0.3063 free r= 0.3305
REMARK final r= 0.2662 free r= 0.3228
REMARK rmsd bonds= 0.011662 rmsd angles= 1.28574
REMARK B rmsd for bonded mainchain atoms=
REMARK B rmsd for bonded sidechain atoms=
REMARK B rmsd for angle mainchain atoms=
REMARK B rmsd for angle sidechain a
 REMARK target= mlf final wa= 6.4425
 REMARK final rweight= 0.1160 (with wa= 6.4425)
 REMARK md-method= torsion annealing schedule= slowcool
REMARK starting temperature= 2000 total md steps= 20 * 6
REMARK cycles= 2 coordinate steps= 20 B-factor steps= 10
REMARK sg= P6(5) a= 132.09 b= 132.09 C= 53.048 alpha= 90 beta= 90 gamma= 120
REMARK topology file 1 : MSI_CNX_TOPPAR:protein.top
REMARK topology file 2 : MSI_CNX_TOPPAR:dna-rna.top
REMARK topology file 3 : MSI_CNX_TOPPAR:water.top
REMARK topology file 3 : MSI_CNX_TOPPAR:ion.top
REMARK topology file 5 : 486.top
REMARK topology file 5 : MSI_CNX_TOPPAR:on.top
REMARK parameter file 1 : MSI_CNX_TOPPAR:protein_rep.param
REMARK parameter file 2 : MSI_CNX_TOPPAR:dna-rna_rep.param
REMARK parameter file 3 : MSI_CNX_TOPPAR:water_rep.param
REMARK parameter file 4 : MSI_CNX_TOPPAR:water_rep.param
                                                                                                                                                                                                                                                                                                    1.15
 REMARK parameter file 5 : 486.par
  REMARK molecular structure file: gen4-in.mtf
 REMARK input coordinates: gen4-in.pdb
  REMARK reflection file= gr2.hkl
  REMARK ncs= none
   REMARK B-correction resolution: 6.0 - 2.8
   REMARK initial B-factor correction applied to fobs :
  REMARK B11= -6.869 B22= -6.869 B33= 13.738
REMARK B12= -11.858 B13= 0.000 B23= 0.000
  REMARK B-factor correction applied to coordinate array B: -1.363
REMARK bulk solvent: (Mask) density level= 0.332998 e/A^3, B-factor= 39.2984 A^2
```

```
REMARK reflections with |Fobs|/sigma_F < 0.0 rejected REMARK reflections with |Fobs| > 10000 * rms(Fobs) rejected REMARK theoretical total number of refl. in resol. range:
                                                                     13246 ( 100.0 % )
REMARK number of unobserved reflections (no entry or |F|=0):
                                                                               0.7 %)
                                                                     94 (
                                                                                0.0 % )
REMARK number of reflections rejected:
                                                                     13152 ( 99.3 % )
12496 ( 94.3 % )
REMARK total number of reflections used:
REMARK number of reflections in working set:
REMARK number of reflections in working set:

REMARK number of reflections in test set:

CRYST1 132.090 132.090 53.048 90.00 90.00 120.00 P 65

REMARK FILENAME="ref4a.pdb"
                                                                       656 (
                                            created by user: kauppi
REMARK DATE:Oct-03-2001 16:22:37
REMARK Written by CNX VERSION: 2000.12
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           1 CB THR A 531
2 OG1 THR A 531
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-3.135
MOTA
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MOTA
                                             60.711 -4.975
                                                             1.00 48.62
                                   -1.762
              CG2 THR A 531
           3
ATOM
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                                             61.045
                                   -0.814
                   THR A 531
           4
              С
ATOM
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                                                     -8.143
                                   -1.062
                   THR A 531
           5
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ATOM
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                                             62.263
                   THR A 531
                                   -2.841
           6
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ATOM
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                   THR A 531
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           7
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ATOM
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                                             61.320
                                    0.401
                   LEU A 532
ATOM
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                                             60.441
                   LEU A 532
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              CA
ATOM
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                                             61.218
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                                                             1.00 50.51
                                     2.824
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              CB
ATOM
                                                     -7.841 1.00 51.65
                                             60.703
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                   LEU A 532
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              CG
ATOM
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                                                     -9.347
                                     3.802
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ATOM
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                                             61.699
              CD2 LEU A 532
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ATOM
          13
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                                             59.196
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MOTA
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              C
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                                             58.083
                                     1.784
                   LEU A 532
MOTA
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MOTA
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              CG1 VAL A 533
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MOTA
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              CG2 VAL A 533
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ATOM
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                   VAL A 533
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ATOM
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                                             56.097
                   VAL A 533
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ATOM
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                                             57.812
                                    -1.323
                   SER A 534
                                             56.977 -5.609
57.841 -6.103
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                                                                                      c
ATOM
                                                               1.00 45.62
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                   SER A 534
               CA
ATOM
                                                               1.00 46.31
                                    -3.580
                   SER A 534
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               CB
ATOM
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-6.757
                                                               1.00 45.25
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                                             58.280
          26
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               С
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 ATOM
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57.066
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               CG
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               CD1 LEU A 535
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               CD2 LEU A 535
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                                     0.489
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                   LEU A 535
          35
 ATOM
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                    LEU A 535
               0
          36
 ATOM
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                    LEU A 536
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 ATOM
                                                               1.00 44.57
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                                     2.067
                   LEU A 536
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               ÇA
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 ATOM
                                                     -5.359
                                                               1.00 44.84
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                                             54.830
           39
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                   LEU A 536
 ATOM
                                                                                       С
                                                               1.00 45.68
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                   LEU A 536
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               CG
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55.058 -6.774
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               CD1 LEU A 536
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                                                               1.00 44.85
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               CD2 LEU A 536
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                                     1.244
           43
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           44
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               CA
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               CB
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                    GLU A 537
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                                                               1.00 58.42
                    GLU A 537
                                     -2.763
 MOTA
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                                                      -2.551
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               OE1 GLU A 537
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                                             55.989
           50
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                                             54.078 -1.479
               OE2 GLU A 537
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           51
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                    GLU A 537
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 ATOM
           52
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                    GLU A 537
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               0
           53
 MOTA
                                             51.823 -6.872
50.911 -7.886
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                    VAL A 538
                                     -1.675
           54
 MOTA
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                    VAL A 538
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                                                                1.00 40.65
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                    VAL A 538
               CB
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                                                                1.00 39.71
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               CG1 VAL A 538
                                     -4.115
           57
 ATOM
                                                                1.00 42.54
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               CG2 VAL A 538
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 ATOM
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                                                                1.00 42.28
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                                     -1.111
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                   SVAL A 538
                С
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           59
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                                     -1.370
                    VAL A 538
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 MOTA
                                                                1.00 39.49
                                      0.107
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                    ILE A 539
           61
                                                                                       С
 ATOM
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                                      1.148
                    ILE A 539
           62
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 MOTA
                                              50.654 -9.818
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                CB
                    ILE A 539
           63
 ATOM
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                                                                1.00 33.81
                                      1.572
                CG2 ILE A 539
           64
 ATOM
                                                      -8.705
                                                                1.00 35.42
                                              51.350
                                      2.997
                CG1 ILE A 539
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 ATOM
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  MOTA
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                    ILE A 539
                                      1.803
           67
                С
  MOTA
                                                                1.00 37.52
                                                                                       0
                                                       -8.637
                                              47.867
                    ILE A 539
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           68
                0
  MOTA
                                                      -6.939
                                                                1.00 39.11
                    GLU A 540
                                      1.540
                                             49.018
  MOTA
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ATOM	70	CA G	LU A	540		2.066	10.00	-5.859 -4.497	1.00 41. 1.00 42.		C C
MOTA	71		LU A			1.556	48.676 47.818	-3.332	1.00 45.		С
MOTA	72		SLU A			2.064 3.593	47.897	-3.078	1.00 49.	27	C
ATOM	73 74		ELU A			4.101	47.055	-2.298	1.00 50.		0
ATOM ATOM	75		LU A			4.293	48.782	-3.627	1.00 50.		C C
ATOM	76		A ULE			1.671	46.736	-6.065 -5.893	1.00 42.		ŏ
ATOM	77		LU A			0.508 2.631	46.355 45.884	-6.429	1.00 43.		N
MOTA	78		PRO A			4.082	46.106	-6.517	1.00 41.	58	C
ATOM ATOM	79 80		PRO A			2.305	44.466	-6.650	1.00 44.		C
ATOM	81		PRO A			3.687	43.826	-6.827	1.00 42. 1.00 42.		C
ATOM	82		PRO A			4.519	44.923	-7.348 -5.505	1.00 42.		č
ATOM	83		PRO A			1.498 1.446	43.806 44.305	-4.383	1.00 46.		0
ATOM	84		PRO A			0.867	42.681	-5.796	1.00 47.	.77	N
ATOM ATOM	85 86		GLU A			0.102	41.973	-4.783	1.00 48.		C
ATOM	87	CB C	GLU A	542		-1.141	41.360	-5.423	1.00 51. 1.00 55.		č
ATOM	88		GLU A			-1.832 -3.232	42.255 41.758	-6.442 -6.809	1.00 58		C
MOTA	89		GLU A			-3.408	40.558	-7.137	1.00 59	.24	0
ATOM ATOM	90 91		GLU A			-4.166	42.584	-6.774	1.00 61		o c
ATOM	92	c (GLU A	542		0.957	40.851	-4.168	1.00 48		0
MOTA	93		GLU A			1.685	40.163	-4.883 -2.854	1.00 48		N
MOTA	94		VAL A		•	0.862 1.602	40.671 39.635	-2.154	1.00 49		С
ATOM	95 96		VAL A			1.045	39.436	-0.722	1.00 50		C
ATOM ATOM	97		VAL A			1.256	40.707	0.049	1.00 52		C C
MOTA	98		VAL A			-0.469	39.114	-0.753	1.00 53 1.00 50		c
ATOM	99		VAL A			1.543	38.304 37.826	-2.901 -3.245	1.00 52		ŏ
MOTA	100		VAL A			0.467 2.705	37.711	-3.145	1.00 50		N
ATOM	101		LEU A LEU A			2.795	36.458	-3.858	1.00 50	.75	C
ATOM ATOM	102 103		LEU A			4.063	36.430	-4.702	1.00 49		C
ATOM	104	CG	LEU A	544		4.221	37.508	-5.778	1.00 49 1.00 45		č
ATOM	105		LEU A			5.440 2.937	37.164 37.613	-6.652 -6.619	1.00 49		C
ATOM	106		LEU A LEU A			2.818	35.301	-2.883	1.00 53		C
ATOM ATOM	107 108		LEU A			3.450	35.385	-1.826	1.00 54		0
ATOM	109		TYR A			2.142	34.215	-3.250	1.00 53 1.00 54		N C
ATOM	110		TYR A			2.069	33.021	-2.415 -2.750	1.00 53		č
MOTA	111		TYR A			0.803 -0.439	32.229 32.804	-2.126	1.00 54		С
ATOM	112 113	CG CD1	TYR A			-0.790	32.490	-0.814	1.00 53		C
ATOM ATOM	114		TYR A			-1.912	33.057	-0.215	1.00 55		C C
ATOM	115	CD2	TYR A	545		-1.240	33.702	-2.831 -2.246	1.00 55 1.00 56		č
ATOM	116		TYR A			-2.363 -2.695	34.279 33.954	-0.938	1.00 57		С
ATOM	117	CZ OH	TYR A			-3.812	34.526	-0.360	1.00 59	.17	0
ATOM ATOM	.118 119	C	TYR A			3.281	32.143	-2.623	1.00 54		c o
ATOM	120	ō	TYR A			3.736	31.983	-3.752	1.00 54 1.00 55		N
ATOM	121	N	ALA A			3.798	31.571 30.686	-1.536 -1.602	1.00 56		c
ATOM	122	CA	ALA A			4.968 5.717	30.711	-0.278	1.00 57		С
ATOM ATOM	123 124	CB C	ALA A			4.605	29.243	-1.949	1.00 56		C
ATOM	125	ŏ	ALA A	546		5.394	28.529	-2.572	1.00 56		Ŋ
ATOM	126	N	GLY A	547		3.413	28.819	-1.543 -1.813	1.00 58		Ĉ
MOTA	127	CA	GLY A			2.986 3.830	27.461 26.466	-1.042	1.00 61		С
ATOM	128 129	C O	GLY A			4.280	25.465	-1.595	1.00 62	2.10	. 0
MOTA MOTA	130	N	TYR A			4.048	26.743	0.241	1.00 63		N C
ATOM	131	CA	TYR A			4.847	25.868	1.092	1.00 63 1.00 60		č
MOTA	132	CB	TYR A			5.336	26.648 25.845	2.315 3.239	1.00 58		С
ATOM	133	CG	TYR A			6.218 5.862	25.625	4.575	1.00 57		С
ATOM	134 135		TYR A			6.706	24.90B	5.442	1.00 54		C
ATOM ATOM	136		TYR F			7.423	25.332	2.790	1.00 56		· c
ATOM	137		TYR A	A 548		B.265	24.621	3.634	1.00 5		č
ATOM	138	CZ	TYR A			7.911	24.414 23.730	4.957 5.777	1.00 5		. 0
ATOM	139	OH	TYR A	A 548 A 548		8.786 4.029	24.652	1.532	1.00 6	5.38	С
ATOM	140 141	C	TYR F			2.802	24.666	1.462	1.00 6	4.30	0
ATOM ATOM	142	N		A 549		4.727	23.603	1.964			N C
ATOM	143		ASP A	A 549		4.113	22.364	2.438			c
ATOM	144	CB		A 549		5.099	21.196 21.490	2.236 2.777			č
MOTA	145			A 549		6.509 6.768	21.490	3.991			0
MOTA	146 147		ASP ASP			7.365	21.929	1.976	1.00 6	8.83	0
MOTA MOTA	148			A 549		3.763	22.563	3.917			C O
ATOM	149	0	ASP A	A 549		4.545	22.229				N
MOTA	150	N	SER I	A 550		2.574	23.116	4,130	1.00 /		-

					02 447	E 401	1.00 76.11		С
ATOM	151		SER A 550	2.098	23.447 24.099	5.491 5.419	1.00 75.82		č
ATOM	152	CB	SER A 550	0.726	23.132	5.690	1.00 76.81		0
ATOM	153	OG	SER A 550	-0.274 2.026	22.331	6.515	1.00 77.29		С
ATOM	154	С	SER A 550	2.026	22.586	7.699	1.00 78.08		0
ATOM	155	0	SER A 550	1.716	21.111	6.091	1.00 78.62		N
ATOM	156	N	SER A 551	1.637	20.003	7.046	1.00 79.57		С
ATOM	157	CA	SER A 551	0.564	18.999	6.632	1.00 79.28		C
MOTA	158	CB	SER A 551	0.966	18.319	5.457	1.00 78.65		0
ATOM	159	OG	SER A 551 SER A 551	2.970	19.279	7.107	1.00 79.32		С
ATOM	160	C	SER A 551	3.457	18.926	8.184	1.00 80.11		0
ATOM	161	o N	VAL A 552	3.542	19.050	5.931	1.00 78.23		N
ATOM	162 163	CA	VAL A 552	4.813	18.362	5.811	1.00 77.87		C
ATOM	164	CB	VAL A 552	5.374	18.483	4.392	1.00 76.92		C
ATOM	165		VAL A 552	6.625	17.630	4.262	1.00 75.03		C
ATOM ATOM	166		VAL A 552	4.307	18.080	3.375	1.00 76.24		C
ATOM	167	C	VAL A 552	5.816	18.945	6.783	1.00 78.01		C
ATOM	168	ŏ	VAL A 552	5.957	20.166	6.899	1.00 78.05		0
ATOM	169	N	PRO A 553	6.529	18.071	7.502	1.00 78.43		С
ATOM	170	CD	PRO A 553	6.524	16.600	7.381	1.00 78.07		C
ATOM	171	CA	PRO A 553	7.528	18.515	8.475	1.00 78.64		C
ATOM	172	СВ	PRO A 553	8.340	17.246	8.724	1.00 78.33		C
ATOM	173	CG	PRO A 553	7.318	16.166	8.598	1.00 78.15		č
ATOM	174	C	PRO A 553	8.389	19.673	7.963	1.00 78.40		ŏ
ATOM	175	0	PRO A 553	8.897	19.640	6.835	1.00 78.68		N
ATOM	176	N	ASP A 554	8.545	20.700	8.795	1.00 77.55		Č
ATOM	177	CA	ASP A 554	9.352	21.854	8.415	1.00 76.93		c
ATOM	178	CB	ASP A 554	9.151	23.023	9.393	1.00 76.00		č
ATOM	179	CG	ASP A 554	7.820	23.721	9.196	1.00 76.42		ŏ
MOTA	180	OD1	ASP A 554	6.809	23.291	9.801	1.00 76.75 1.00 74.81		ŏ
ATOM	181	OD2	ASP A 554	7.785	24.693	8.414	1.00 76.23		č
ATOM	182	С	ASP A 554	10.836	21.536	8.325	1.00 76.48		ŏ
MOTA	183	0	ASP A 554	11.451	21.123	9.301	1.00 76.12		N
ATOM	184	N	SER A 555	11.400	21.731	7.138	1.00 76.05		С
ATOM	185	CA	SER A 555	12.824	21.505	6.902 5.767	1.00 76.21		C
ATOM	186	CB	SER A 555	13.019	20.492	5.671	1.00 77.67		o
ATOM	187	OG	SER A 555	11.918	19.605	6.494	1.00 74.61		Ċ
ATOM	188	С	SER A 555	13.479	22.831	5.829	1.00 74.88		0
ATOM	189	0	SER A 555	12.861	23.656	6.890	1.00 73.27		N
ATOM	190	N	THR A 556	14.724	23.042 24.264	6.505	1.00 72.06		С
ATOM	191	CA	THR A 556	15.414	24.204	7.176	1.00 72.01		С
ATOM	192	СВ	THR A 556	16.785 16.602	24.315	8.598	1.00 70.90		0
MOTA	193		THR A 556		25.594	6.742	1.00 71.77		С
MOTA	194		THR A 556		24.275	4.982	1.00 71.67		С
ATOM	195	C	THR A 556		25.330	4.375	1.00 71.94		0
ATOM	196	0	THR A 556 TRP A 557	15.595	23.096	4.369	1.00 70.39		N
ATOM	197	N	TRP A 557	15.762	22.993	2.924	1.00 69.47		C
ATOM	198	CA CB	TRP A 557	16.278	21.603	2.558	1.00 69.26		C
ATOM	199 200	CG	TRP A 557		21.140	1.192	1.00 68.51		C
ATOM	201		TRP A 557		21.203	0.007	1.00 68.81		C
ATOM	202		TRP A 557		20.666	-1.047	1.00 69.20		C
ATOM	203		TRP A 557	17.969	21.662	-0.274	1.00 68.89		C
ATOM ATOM	204		TRP A 557	14.683	20.583	0.825	1.00 68.76		C
MOTA	205		TRP A 557		20.294	-0.519	1.00 69.36		N
ATOM	206		TRP A 557		20.573	-2.360	1.00 69.52		C
ATOM	207	CZ3	TRP A 557	18.446	21.570	-1.580	1.00 69.22		c
ATOM	208	CH2	TRP A 557	17.650	21.029	-2.606	1.00 69.23		č
ATOM	209	С	TRP A 557	14.433	23.256	2.237	1.00 69.42		ŏ
ATOM	210	0	TRP A 557		23.845	1.156	1.00 69.20 1.00 69.45		N
ATOM	211	N	ARG A 558		22.793	2.869	1.00 69.45		ĉ
ATOM	212	CA	ARG A 558		22.987	2.331	1.00 08.01		č
ATOM	213	CB	ARG A 558		22.156	3.117	1.00 74.42		Ċ
ATOM	214	CG	ARG A 558		20.657	2.926	1.00 77.47		Ċ
ATOM	215	CD	ARG A 558		20.265	1.463	1.00 79.35		N
ATOM	216	NE	ARG A 558		18.810	1.250	1.00 79.72		Ċ
ATOM	217	CZ	ARG A 558		18.200	0.071	1.00 79.73		N
ATOM	218	NH1	ARG A 558	10.596	18.902	-1.042 0.006	1.00 77.99		N
ATOM	219		ARG A 558		16.875	2.406	1.00 66.30		Ċ
MOTA	220	С	ARG A 558		24.468	1.683	1.00 66.38	. ,,,,,	ŏ
ATOM	221	0	ARG A: 558		24.936	3.284	1.00 62.72		N
ATOM	222	N	ILE A 559		25.205 26.633	3.431	1.00 60.06		С
ATOM	223	CA	ILE A 559		27.084	4.904	1.00 58.16		С
ATOM	224	СВ	ILE A 559	12.234	28.597	5.005	1.00 57.79		С
ATOM	225	CG2	ILE A 559	12.132	26.442	5.771	1.00 55.84		С
ATOM	226		ILE A 559		26.641	7.237	1.00 54.57		С
ATOM	227		ILE A 559		27.466	2.528	1.00 58.90		С
ATOM	228	C	ILE A 559		28.386	1.840	1.00 58.71		0
ATOM	229	0	ILE A 559		27.140	2.525	1.00 57.11		Ŋ
ATOM	230	N	MET A 560		27.879	1.687	1.00 55.49		С
ATOM	231	CA	MET A 560	, 13.613	,				

MOTA	232	СВ	MET A 560	16.663	27.429	1.942	1.00 55.07	C
ATOM	233	CG	MET A 560	17.279	27.911	3.261	1.00 55.01 1.00 55.71	S
MOTA	234	SD	MET A 560	16.722	29.565 30.607	3.742 2.615	1.00 56.88	Č
ATOM	235	CE	MET A 560 MET A 560	17.693 14.866	27.671	0.215	1.00 53.30	С
ATOM ATOM	236 237	C O	MET A 560	15.039	28.562	-0.618	1.00 53.24	0
ATOM	238	N	THR A 561	14.359	26.489	-0.101	1.00 51.46	N C
ATOM	239	CA	THR A 561	14.008	26.184 24.723	-1.472 -1.614	1.00 49.42 1.00 47.12	č
ATOM	240	CB	THR A 561	13.645 14.833	23.955	-1.436	1.00 43.30	0
ATOM	241 242		THR A 561 THR A 561	13.025	24.438	-2.992	1.00 47.09	C
MOTA MOTA	243	C	THR A 561	12.847	27.035	-1.896	1.00 50.35	C O
MOTA	244	0	THR A 561	12.962	27.856	-2.813	1.00 49.29 1.00 50.60	N N
MOTA	245	N	THR A 562	11.729 10.513	26.829 27.566	-1.209 -1.480	1.00 50.50	C
MOTA	246	CA CB	THR A 562 THR A 562	9.410	27.243	-0.438	1.00 50.72	Ċ
ATOM ATOM	247 248		THR A 562	9.417	25.835	-0.181	1.00 49.04	0
ATOM	249	CG2	THR A 562	8.015	27.654	-0.977	1.00 51.29	C C
MOTA	250	С	THR A 562	10.822	29.055	-1.441 -2.257	1.00 50.76 1.00 52.50	ŏ
MOTA	251	0	THR A 562	10.295 11.679	29.810 29.466	-0.502	1.00 48.08	N
MOTA	252 253	N CA	LEU A 563 LEU A 563	12.070	30.864	-0.377	1.00 48.07	C
ATOM ATOM	254	CB	LEU A 563	12.976	31.093	0.842	1.00 48.05	C C
ATOM	255	CG	LEU A 563	12.321	31.685	2.096	1.00 47.81 1.00 47.59	C
MOTA	256		LEU A 563	13.369	31.898 33.009	3.145 1.794	1.00 48.28	č
ATOM	257		LEU A 563 LEU A 563	11.680 12.807	31.296	-1.628	1.00 49.19	С
ATOM ATOM	258 259	C O	LEU A 563	12.795	32.461	-2.010	1.00 49.29	0
ATOM	260	N	ASN A 564	13.448	30.344	-2.280	1.00 50.80	N C
ATOM	261	CA	ASN A 564	14.172	30.660	-3.493 -3.759	1.00 51.91 1.00 54.20	č
MOTA	262	CB	ASN A 564	15.175 16.105	29.551 29.865	-4.904	1.00 55.56	С
MOTA	263 264	CG	ASN A 564 ASN A 564	15.709	29.854	-6.078	1.00 56.75	0
ATOM ATOM	265		ASN A 564	17.358	30.142	-4.572	1.00 54.82	N C
ATOM	266	C	ASN A 564	13.228	30.842	-4.690 -5.471	1.00 51.59 1.00 52.16	ő
ATOM	267	0	ASN A 564	13.363 12.273	31.786 29.928	-4.831	1.00 49.72	N
MOTA	268 269	N CA	MET A 565 MET A 565	11.306	29.990	-5.922	1.00 48.12	C
ATOM ATOM	270	CB	MET A 565	10.313	28.830	-5.803	1.00 50.29	C C
ATOM	271	CG	MET A 565	10.509	27.757	-6.866	1.00 54.07 1.00 59.68	s
MOTA	272	SD	MET A 565	12.238	27.296 28.291	-7.119 -8.568	1.00 56.89	Č
MOTA	273	CE	MET A 565 MET A 565	12.668 10.575	31.332	-5.875	1.00 46.21	С
MOTA MOTA	274 275	С 0	MET A 565	10.391	32.007	-6.896	1.00 44.66	0
ATOM	276	N	LEU A 566	10.183	31.717	-4.665	1.00 42.77	N C
MOTA	277	CA	LEU A 566	9.476	32.967	-4.446 -3.012	1.00 40.42 1.00 39.77	č
ATOM	278	CB	LEU A 566 LEU A 566	8.921 8.272	33.025 34.368	-2.593	1.00 39.92	С
ATOM ATOM	279 280	CG CD1	LEU A 566	7.049	34.700	-3.465	1.00 40.30	C
ATOM	281		LEU A 566	7.871	34.309	-1.130	1.00 38.27	c c
ATOM	282	С	LEU A 566	10.398	34.166	-4.698 -5.405	1.00 40.14 1.00 39.63	ő
ATOM	283	0	LEU A 566 GLY A 567	10.027 11.597	35.113 34.100	-4.122	1.00 37.86	N
ATOM	284 285	N CA	GLY A 567	12.572	35.161	-4.248	1.00 35.66	C
ATOM ATOM	286	C	GLY A 567	12.774	35.611	-5.678	1.00 37.12	c o
ATOM	287	0	GLY A 567	13.036	36.787	-5.952	1.00 35.69	n N
MOTA	288	N	GLY A 568	12.645 12.800	34.661 34.960	-6.597 -8.005	1.00 37.04 1.00 36.19	Ċ
MOTA	289 290	CA C	GLY A 568 GLY A 568	11.627	35.756	-8.541	1.00 35.62	С
MOTA MOTA	291	ŏ	GLY A 568	11.782	36.847	-9.107	1.00 37.61	0
ATOM	292	N	ARG A 569	10.433	35.213	-8.355	1.00 35.12	N C
ATOM	293	CA	ARG A 569	9.222	35.870 35.053	-8.819 -8.375	1.00 34.25 1.00 33.11	č
MOTA	294	CB	ARG A 569 ARG A 569	8.006 7.969	33.634	-8.925	1.00 31.46	C
ATOM ATOM	295 296	CD	ARG A 569	7.066	32.772	-8.063	1.00 32.87	C
ATOM	297	NE	ARG A 569	5.673	33.209	-8.075	1.00 34.06	и С
ATOM	298	CZ	ARG A 569	4.850	33.070	-7.040	1.00 33.79 1.00 35.27	N
MOTA	299		ARG A 569	5.289 3.602	32.507 33.509	-5.923 -7.106	1.00 33.27	N
MOTA	300	NH2 C	ARG A 569 ARG A 569	3.602 9.133	37.316	-8.297	1.00 33.11	С
ATOM ATOM	301 302	Ö	ARG A 569	8.602	38.205	-8.971	1.00 32.54	0
ATOM	303	N	GLN A 570	9.664	37.545	-7.098	1.00 30.74	N C
ATOM	304	CA	GLN A 570	9.669	38.883	-6.518 -5.104	1.00 30.52 1.00 29.10	c
MOTA	305	CB	GLN A 570	10.214 9.645	38.863 37.808	-4.228	1.00 34.13	С
MOTA	306 307	CG	GLN A 570 GLN A 570	9.167	38.377	-2.927	1.00 36.47	C
MOTA MOTA	308		L GLN A 570	9.825	39.230	-2.318	1.00 36.20	0
ATOM	309		2 GLN A 570	8.014	37.909	-2.483	1.00 38.29	N C
ATOM	310	C	GLN A 570	10.536	39.854 41.023	-7.322 -7.479	1.00 31.59 1.00 30.59	ŏ
MOTA	311		GLN A 570	10.178 11.685	39.381	-7.801	1.00 32.05	N
MOTA	312	N	VAL A 571	11.003				

	200 00 007 7 571	12.581 40.241 -8.555 1.00 33.03	C
MOTA	313 CA VAL A 571 314 CB VAL A 571	13 891 39.518 -8.979 1.00 33.17	C
ATOM ATOM	314 CB VAL A 5/1 315 CG1 VAL A 571	14.764 40.481 -9.786 1.00 28.63	C C
ATOM	316 CG2 VAL A 571	14.636 38.986 -7.748 1.00 32.83 11.854 40.680 -9.811 1.00 35.62	č
ATOM	317 C VAL A 571	11.034	Ö
ATOM	318 O VAL A 571	11.000 10.00 10.00 34 30	N
ATOM	319 N ILE A 572	11.217 39.716 -10.476 1.00 34.33 10.472 39.975 -11.711 1.00 31.63	C
ATOM	320 CA ILE A 572 321 CB ILE A 572	0 003 38 641 -12 289 1.00 30.51	C
MOTA	321 CB ILE A 572 322 CG2 ILE A 572	8.936 38.929 -13.450 1.00 26.00	C C
ATOM ATOM	323 CG1 ILE A 572	11.029 37.708 -12.727 1.00 27.62 10.567 36.301 -13.094 1.00 25.32	č
ATOM	324 CD1 ILE A 572	10.507	С
MOTA	325 C ILE A 572	9.355 40.973 -11.398 1.00 30.32 9.087 41.929 -12.145 1.00 30.96	0
ATOM	326 O ILE A 572	8 738 40.773 -10.246 1.00 29.17	N
MOTA	327 N ALA A 573 328 CA ALA A 573	7 662 41.648 -9.850 1.00 30.66	C
ATOM ATOM	329 CB ALA A 573	6.999 41.132 -8.584 1.00 23.83 8.209 43.051 -9.652 1.00 32.75	Ċ
MOTA	330 C ALA A 573	10 045 1 00 34 65	ō
ATOM	331 O ALA A 573	2 004 1 00 34 21	N
ATOM	332 N ALA A 574	9.893 44.457 -8.547 1.00 35.99	C
ATOM	333 CA ALA A 574 334 CB ALA A 574	11 082 44 242 -7.576 1.00 37.77	C
ATOM	334 CB ALA A 574 335 C ALA A 574	10.380 45.104 -9.863 1.00 35.89	C 0
ATOM ATOM	336 O ALA A 574	10.450 46.334 -9.985 1.00 34.82 10.655 44.270 -10.849 1.00 34.71	N
ATOM	337 N VAL A 575	10.033	С
ATOM	338 CA VAL A 575	11.137 44.773 -12.140 1.00 30.30 11.758 43.632 -13.016 1.00 37.23	С
ATOM	339 CB VAL A 575 340 CG1 VAL A 575	11 901 44 076 -14 479 1.00 36.32	C
ATOM	340 CG1 VAL A 575 341 CG2 VAL A 575	13.136 43.279 -12.490 1.00 38.27	C
MOTA MOTA	342 C VAL A 575	9.966 45.403 -12.885 1.00 37.14 10.113 46.448 -13.518 1.00 37.37	Ö
ATOM	343 O VAL A 575	10.113 40.111 1 00 37 95	N
ATOM	344 N LYS A 576	8.805 44.764 -12.815 1.00 37.03 7.617 45.280 -13.485 1.00 38.77	С
ATOM	345 CA LYS A 576 346 CB LYS A 576	6 506 44.236 -13.429 1.00 39.36	C
ATOM	346 CB LYS A 576 347 CG LYS A 576	5.360 44.562 -14.334 1.00 43.51	C C
ATOM ATOM	348 CD LYS A 576	4.079 43.877 -13.916 1.00 46.79 2.877 44.781 -14.236 1.00 48.91	c
ATOM	349 CE LYS A 576	2.0//	N
ATOM	350 NZ LYS A 576	3.034 46.142 -13.588 1.00 46.36 7.158 46.544 -12.760 1.00 39.15	С
ATOM	351 C LYS A 576 352 O LYS A 576	6 753 47.537 -13.364 1.00 39.95	0
MOTA	352 O LYS A 576 353 N TRP A 577	7.232 46.502 -11.445 1.00 36.56	N C
ATOM ATOM	354 CA TRP A 577	6.819 47.638 -10.678 1.00 36.07 6.861 47.318 -9.202 1.00 33.65	č
ATOM	355 CB TRP A 577	0.301 1.00 1 00 31 88	С
ATOM	356 CG TRP A 577	6.970 48.528 -8.339 1.00 31.66 8.127 49.185 -7.764 1.00 31.22	С
MOTA	357 CD2 TRP A 577 358 CE2 TRP A 577	7 641 50.253 -6.973 1.00 29.27	C C
ATOM	358 CE2 TRP A 5// 359 CE3 TRP A 577	9.517 48.973 -7.840 1.00 28.86	c
ATOM ATOM	360 CD1 TRP A 577	5.880 49.212 -7.894 1.00 30.51 6.277 50.243 -7.072 1.00 31.72	Ŋ
ATOM	361 NE1 TRP A 577	0.27	С
MOTA	362 CZ2 TRP A 577	10 377 49.845 -7.108 1.00 27.76	C
MOTA	363 CZ3 TRP A 577 364 CH2 TRP A 577	9.852 50.891 -6.329 1.00 27.24	c c
ATOM ATOM	365 C TRP A 577	7.653 48.865 -11.032 1.00 37.91	ŏ
ATOM	366 O TRP A 577	7.131 49.972 -11.208 1.00 36.99 8.861 48.664 -11.156 1.00 40.51	N
ATOM	367 N ALA A 578	8.961 48.664 -11.156 1.00 40.51 9.860 49.774 -11.478 1.00 41.65	С
ATOM	368 CA ALA A 578 369 CB ALA A 578	11 204 49 287 -11 532 1.00 40.34	C
MOTA	369 CB ALA A 578 370 C ALA A 578	9.465 50.438 -12.796 1.00 41.28	C O
MOTA MOTA	371 O ALA A 578	9.384 51.661 -12.885 1.00 39.86 9.216 49.624 -13.814 1.00 43.04	N
ATOM	372 N LYS A 579	15 170 1 00 46 65	С
ATOM	373 CA LYS A 579	8.847 50.146 -15.120 1.00 40.03 8.614 48.996 -16.107 1.00 46.24	c
MOTA	374 CB LYS A 579 375 CG LYS A 579	9 851 48.195 -16.466 1.00 46.67	C
ATOM ATOM	375 CG LYS A 579 376 CD LYS A 579	9.897 47.962 -17.957 1.00 48.01	C
MOTA	377 CE LYS A 579	11.324 48.069 -18.494 1.00 50.77	N
ATOM	378 NZ LYS A 579	11.402	C
ATOM	379 C LYS A 579	7.593 51.024 -15.046 1.00 49.17 7.457 51.994 -15.801 1.00 50.93	0
ATOM	380 O LYS A 579 381 N ALA A 580	5 695 50.696 -14.120 1.00 49.47	N
ATOM	381 N ALA A 580 382 CA ALA A 580	5.446 51.421 -13.948 1.00 48.74	C
MOTA: MOTA	383 CB ALA A 580	4.459 50.570 -13.138 1.00 47.63	Ċ
ATOM	384 C ALA A 580	3.073 325 12 426 1 00 51 36	0
MOTA	385 O ALA A 580	6 772 52.885 -12.531 1.00 51.42	N
ATOM	386 N ILE A 581 387 CA ILE A 581	7.107 54.142 -11.848 1.00 51.19	C
MOTA MOTA	387 CA ILE A 581 388 CB ILE A 581	8 472 54.049 -11.087 1.00 51.78	C
MOTA	389 CG2 ILE A 581	8.701 55.323 -10.292 1.00 51.98 8.499 52.836 -10.146 1.00 50.73	č
ATOM	390 CG1 ILE A 581	0.40 000 1 00 40 50	С
MOTA	391 CD1 ILE A 581	7 204 55.278 -12.873 1.00 51.72	C
MOTA	392 C ILE A 581 393 O ILE A 581	7.993 55.224 -13.813 1.00 51.09	0
MOTA	ט בענ ט בענ		

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7 mon	394	N	PRO	а :	582	6.385			-12.704			54.02		C N
ATOM ATOM	395	CD	PRO	A :	582	5.345			-11.670			52.87		c
ATOM	396	CA	PRO			6.370			-13.608			54.01 54.01		č
ATOM	397	CB	PRO			5.405			-12.917 -12.261			53.51		Č
ATOM	398	CG	PRO			4.442 7.747			-13.82			54.80		С
MOTA	399	C	PRO			8.366			-12.88			53.81		0
ATOM	400	0	PRO GLY			8.215			-15.070		.00	55.74		N
ATOM	401 402	n Ca	GLY			9.491	58	. 688	-15.403	3 3		56.81		C
MOTA MOTA	403	C	GLY			10.634	57	.704	-15.430) 1		57.67		C
ATOM	404	ŏ	GLY			11.714			-15.94			58.72	•	O N
ATOM	405	N	PHE			10.404			-14.86			56.97 56.64		Ĉ
ATOM	406	CA	PHE			11.432			-14.83 -14.01			52.95		Ċ
ATOM	407	CB	PHE			10.960 12.009			-13.85			49.47		С
ATOM	408	CG	PHE			13.078			-12.97			47.44		С
ATOM	409		PHE PHE			11.957			-14.61	1 1		47.12		C
ATOM ATOM	410 411		PHE			14.067	52	. 409	-12.86	7]		44.97		C
ATOM	412		PHE			12.947			-14.49	-		46.11		c
ATOM	413	CZ	PHE			14.002			-13.62			44.16 58.50		č
MOTA	414	С	PHE			11.803			-16.24 -16.56			58.64		0
MOTA	415	0	PHE			12.984 10.790			-17.09			60.26		N
ATOM	416	N	ARG ARG			11.007			-18.46	3 :	1.00	61.00		С
ATOM	417 418	CA CB	ARG			9.703			-19.07	3 :		60.88		C
ATOM ATOM	419	CG	ARG			9.687	52		-19.35			62.71		C
ATOM	420	CD	ARG			8.268			-19.64			64.91		N
ATOM	421	NE	ARG			8.171			-19.77			67.64 70.40		ĉ
ATOM	422	CZ	ARG			8.412			-20.89 -22.00	-		70.62		N
ATOM	423		ARG			8.761 8.316			-20.91			70.06		N
MOTA	424		ARG	A	585 585	11.585			-19.33	-		61.90		С
ATOM	425	C O			585	11.965			-20.46	9		61.35	•	0
ATOM ATOM	426 427	N			586	11.646	5 56	.705	-18.78			63.51		N C
ATOM	428	CA			586	12.207			-19.48			64.69		Č
ATOM	429	СВ	ASN	A	586	11.563			-18.98			65.67 67.09		č
MOTA	430	CG			586	10.107			-19.37 -18.91			66.96		0
ATOM	431		ASN			9.381 9.669		362	-20.24			66.08		N
ATOM	432		ASN		586	13.72			-19.30			64.75		C
MOTA	433 434	C			586	14.40	7 58	.745	-19.95	4		65.61		0
ATOM ATOM	435	N			587	14.24	6 57		-18.39			63.05		N C
MOTA	436	CA			587	15.67			-18.11			61.56		č
MOTA	437	СB			587	15.91			-16.76			59.73 58.39		č
ATOM	438	CG			587	15.15			2 -15.55 5 -14.37			54.35		С
MOTA	439		LEU			15.29 15.69			5 -15.21			59.13		С
MOTA	440		LEU		587	16.34			-19.22		1.00	62.41		C
ATOM	441 442	C O			587	15.68	8 55		-19.94			61.86		0
ATOM ATOM	443	N			588	17.65			-19.38			63.82		N C
ATOM	444	CA			588	18.39			20.40			64.92 66.72		č
ATOM	445	CB			588	19.87	8 50	740) -20.36) -21.61	14		69.11	•	C
ATOM	446	CG			588	20.63 20.41			2 -22.5			69.77		C
ATOM	447		HIS HIS			21.76			2 -22.00			69.86		N
MOTA	448 449		L HIS			22.21			5 -23.14			70.16		C
MOTA MOTA	450		HIS			21.40	7 54		1 -23.50			69.84		N C
ATOM	451	C			588	18.21			0 -20.1			65.56		Ö
ATOM	452	0	HIS	S A	588	18.12		3.75	8 -18.9	93		64.81 66.84		Ň
MOTA	453	N			589	18.15			6 -21.20 2 -21.00			68.00		С
MOTA	454	CA			589	17.93 17.74			3 -22.4			67.58		С
MOTA	455	CB			. 589 . 589	16.98			8 -22.5			67.32		С
MOTA	456 457	CG	LEV			15.60	_		1 -21.9			65.32		C
ATOM ATOM	458		2 LE			16.87	4 4		0 -24.0			67.70		C
ATOM	459	c			589	19.03			8 -20.3			69.34		Ö
MOTA	460	ō			589	18.84			3 -19.9		1.00	70.96	•	N
ATOM	461	Ń			590	20.18			7 -20.1 5 -19.5			69.58		Ċ
MOTA	462	CA			590	21.31	_		5 -19.5 9 -20.0			70.15		С
ATOM	463	CB			590	22.66 22.53	_	2.43	0 -21.4	56 J	۲1.00	71.99		C
MOTA	1464	CG			590 590	21.85	5 5	1.87	7 -22.3	36	1.00	72.17		0
ATOM ATOM	465 466				590	23.14	0 5	3.50	7 -21.6	83		73.93		0 C
ATOM	467				590	21.25	3 5	1.42	8 -18.0	09		68.21		0
ATOM	468		AS	P P	1 590	21.09			3 -17.2			67.71		N
ATOM	469				591	21.37			7 -17.5 7 -16.1			67.55		Ċ
MOTA	470				1 591	21.35			17 -16.1 12 -15.9			68.82		С
MOTA	471				591	21.62 20.56			5 -16.6			68.52		C
ATOM	472		AS	ים	4 591 4 591	20.66		6.60	6 -16.5	58	1.0	68.25		0
ATOM	473 474				A 591	19.62	_		9 -17.1		1.0	68.72		0
MOTA	4/4	UL	z no											

										ce na		С
MOTA	475	С	ASP	A	591	20.028		-15.528	1.00			ŏ
ATOM	476	0	ASP	A	591	19.884		-14.305	1.00			N
ATOM	477	N	GLN	A	592	19.062		-16.379	1.00			C
ATOM	478	CA	GLN	A	592	17.739		-15.920	1.00			
ATOM	479	СВ	GLN	Α	592	16.783	51.812	-17.112	1.00			C
MOTA	480	CG			592	15.303	51.977	-16.774	1.00			C
ATOM	481	CD			592	14.401	52.033	-18.013	1.00			C
ATOM	482		GLN			14.022	51.005	-18.576	1.00			0
	483		GLN			14.062	53.241	-18.437	1.00			N
ATOM	484	C			592	17.812		-15.256	1.00			С
ATOM		ŏ			592	17.204		-14.216	1.00			0
ATOM	485	N			593	18.568		-15.864	1.00	59.38		N
ATOM	486				593	18.676		-15.341	1.00	59.02		С
ATOM	487	CA.			593	18.912		-16.494	1.00	59.31		С
ATOM	488	CB			593	20.218		-17.204	1.00	58.67		С
ATOM	489	CG			593	20.046		-18.933	1.00	60.50		S
ATOM	490	SD			593	19.999		-18.889	1.00	56.14		С
MOTA	491	CE			593	19.774		-14.298	1.00	58.08		С
ATOM	492	C			593	19.910		-13.636	1.00	58.68		0
ATOM	493	0			594	20.554		-14.149	1.00	55.23		N
MOTA	494	N			594	21.619		-13.167	1.00	52.37		С
ATOM	495	CA			594	22.710		-13.503	1.00	52.59		С
ATOM	496	CB				22.163		-13.400	1.00	55.64		0
ATOM	497		THR			23.215		-14.911		51.12		С
MOTA	498		THR			20.980		-11.818		50.13		С
ATOM	499	С			594	21.400		-10.779		50.71		0
ATOM	500	0			594	19.950		-11.849		47,21		N
ATOM	501	N			595	19.210		-10.643		43.18		С
MOTA	502	CA			595			-10.979		39.15		С
ATOM	503	CB			595	18.233		-11.365		37.82		Ç
ATOM	504	CG			595	18.882		-12.179		34.71		С
ATOM	505		LEU			17.878		-10.114		33.64		С
ATOM	506		TEO			19.379		-10.089		42.45		С
MOTA	507	С			595	18.441				39.98		0
ATOM	508	0			595	18.326				42.62		N
MOTA	509	N			596	17.929		-11.010		42.07		C
ATOM	510	CA			596	17.165		-10.671		41.51		Č
MOTA	511	CB	LEU	A	596	16.424		-11.916				Ċ
ATOM	512	CG			596°	15.073		-12.265		42.26 40.73		Č
ATOM	513	CD1	LEU	A	596	14.632		-13.646				č
ATOM	514	CD2	LEU	A	596	13.982		-11.208		39.90		č
ATOM	515	С	LEU	A	596	18.108		-10.142		42.95		ŏ
ATOM	516	0	LEU	A	596	17.89				42.89		N
ATOM	517	N	GLN	A	597	19.18		-10.878		45.16		C
ATOM	518	ÇA	GLN	A	597	20.170		-10.513		45.30		č
ATOM	519	CB	GLN	Α	597	21.19		-11.625		45.25		č
ATOM	520	CG	GLN	Α	597	22,23		-11.389		49.66		c
ATOM	521	CD	GLN	Α	597	23.37		-12.392		50.52		Ö
ATOM	522	OE1	GLN	Α	597	23.242		1 -13.472		49.38		N
ATOM	523	NE2	GLN	Α	597	24.49		1 -12.038		51.96		C
ATOM	524	С	GLN	A	597	20.82				45.12		ŏ
ATOM	525	0	GLN	Α	597	21.53				46.73		N
ATOM	526	N	TYR	A	598	20.54				44.17		C
ATOM	527	CA	TYR	A	598	21.15				45.01		Ċ
ATOM	528	CB	TYR	A	598	21.69	48.664			47.76		č
ATOM	529	CG	TYR	A	598	22.17	49.260			50.34		c
ATOM	530		TYR	A	598	23.32	3 48.770			52.47		c
ATOM	531	CE1	TYR	L A	598	23.78				54.60		c
ATOM	532	CD2	TYP	A	598	21.46				51.63		c
ATOM	533				598	21.90				53.57		c
ATOM	534	CZ			598	23.07	5 50.280			55.40		
ATOM	535	OH			598	23.55				57.52		o C
ATOM	536	C			598	20.20				43.65		0
ATOM	537	0	TYF	l A	598	20.52	2 46.692			42.75		
ATOM	538	N			599	19.01	47.767			42.25		N
ATOM	539	CA			599	18.04	47.847			40.21		C
ATOM	540	СВ			599	17.30	49.170			41.02		C
ATOM	541	OG			599	16.77	L 49.355	5 -6.737		43.50		0
ATOM	542	Ċ.			599	17.04	L 46.733	1 -5.241		37.89		C
ATOM	543	ŏ.			599	16.25				35.35		0
ATOM-	544	N			600	17.07		9 -6.153		36.83		N
ATOM-	545	CA			600	16.14				39.71	*	C
	546	CB			600	16.40		7.105		40.75		C
ATOM	547	CG			600	17.66		8 -6.960	1.00	43.83		C
MOTA	548				600	17.85				44.81		C
MOTA	549				600	19.20			1.00	44.98		C
MOTA	550				600	17.02			1.00	45.02		C
MOTA	551				600	18.86	40 00			46.31		C
ATOM	552				4 600	19.79			1.00	47.86		N
ATOM	553				4 600	19.75			1.00	42.75		C
MOTA	554				4 600	17.56		7 -4.744	1.00	44.88		C
ATOM	_				4 600	18.91			1.00	43.78		С
MOTA	555	U112	- 1111			-0.54	-					

		_	TRP I	cor	,	16.149	44.045	-4.655	1.00	40.84		С
ATOM	556	-	TRP I			15.100	43.639	-4.144	1.00	42.57		0
ATOM	557	-	MET ?			17.318	43.964	-4.030		40.62		N
ATOM	558		MET ?			17.370	43.383	-2.700		37.96		C
MOTA	559		MET ?			18.789	42.874	-2.367		39.10		C
ATOM	560 561		MET A			18.951	42.285	-0.929		36.78		C
ATOM	562		MET A			17.661	41.045	-0.407		38.16		S
MOTA	563		MET 2			18.412	39.458	-0.893		28.58		C
ATOM	564		MET A			16.897	44.410	-1.673		35.33		C
ATOM ATOM	565		MET A			16.415	44.031	-0.618		33.40		0
ATOM	566	N	PHE A			17.026	45.700	-1.985		33.32		N
ATOM	567	CA	PHE 2			16.558	46.767	-1.087		33.61		C C
ATOM	568	СВ	PHE I			16.990	48.133	-1.615		32.68		C
ATOM	569	CG	PHE A			18.413	48.488	-1.304		35.07		c
MOTA	570	CD1	PHE A	A 60	2	19.471	48.026	-2.099		34.67		Č
ATOM	571		PHE A		2	18.699	49.286	-0.203		35.29 35.82		č
ATOM	572		PHE 2		2	20.803	48.368	-1.796		36.29		č
ATOM	573	CE2	PHE 2			20.020	49.637	0.120 -0.677		36.30		Č
ATOM	574	CZ	PHE			21.079	49.177	-1.013		34.19		C
ATOM	575	С	PHE			15.018	46.743 46.843	0.053		32.90		0
MOTA	576	0	PHE :			14.411	46.622	-2.186		34.93		N .
MOTA	577	N	LEU .			12.970	46.578	-2.351		33.13		С
ATOM	578	CA	LEU .			12.657	46.535	-3.853	1.00	30.04		С
ATOM	579	CB	LEU			13.307	47.603	-4.746	1.00	26.04		C
ATOM	580	CG	LEU			13.088	47.232	-6.235		18.93		C
MOTA	581 582		LEU			12.749	49.002	-4.344		21.25		C
ATOM	583	CDZ	LEU			12.368	45.347	-1.657		34.15		C
ATOM ATOM	584	ŏ	LEU			11.654	45.452	-0.648		34.86		0
ATOM	585	N	MET			12.672	44.173	-2.207		34.03		N C
ATOM	586	CA	MET			12.161	42.908	-1.667		33.17		c
ATOM	587	CB	MET	A 60	4	12.904	41.733	-2.292		31.37		č
ATOM	588	CG	MET	A 60	4	12.639	41.605	-3.770		31.35 34.84		Š
MOTA	589	SD	MET	A 60	4	13.532	40.260	-4.533		32.50		č
MOTA	590	CE	MET			13.049	38.828	-3.435 -0.151		34.90		C
ATOM	591	С	MET			12.274	42.848 42.395	0.549		34.42		0
MOTA	592	0	MET			11.353 13.411	43.314	0.356		35.16		N
ATOM	593	N	ALA ALA			13.411	43.314	1.797		35.75		С
MOTA	594	CA CB		A 60		15.167	43.549	2.115		34.01		C
ATOM	595 596	C		A 60		12.790	44.357	2.522		35.26		C
ATOM ATOM	597	ŏ		A 60		12.267	44.088	3.603		35.64		0
ATOM	598	N		A 60		12.657	45.543	1.936		34.31		N C
ATOM	599	CA	PHE	A 60)6	11.880	46.608	2.554		33.65		c
ATOM	600	CB	PHE	A 60)6	12.104	47.924	1.790		32.95 31.43		č
ATOM	601	CG	PHE	A 60		11.632	49.141	2.526 3.782		28.25		Č
MOTA	602		PHE			12.130	49.443 49.971	1.974		32.65		С
ATOM	603		PHE			10.652 11.658	50.546	4.485		26.61		С
MOTA	604		PHE			10.168	51.084	2.671		30.07		С
ATOM	605	CEZ	PHE	A 60		10.669	51.370	3.923		29.38		С
ATOM	606 607	C		A 60		10.411	46.196	2.525		34.29		C
MOTA MOTA	608	ŏ		A 60		9.642	46.502	3.438	1.00			0
ATOM	609	Ŋ		A 60		10.037	45.468	1.480		35.25		N C
ATOM	610	CA		A 60		8.665	45.009	1.366		36.22		c
ATOM	611	CB	ALA			8.403	44.452	-0.017		36.17		č
ATOM	612	С	ALA	A 60	37	8.402	43.946	2.425	1.00	36.85 37.58		ŏ
MOTA	613	. 0		A 60		7.380		3.095 2.562	1.00	36.93		N
ATOM	614	N		A 60		9.321	42.989	3.557	1.00	38.22		С
ATOM	615	CA		A 60		9.211		3.513		40.70		C
ATOM	616	CB		A 60		10.444		4.669		40.62		C
ATOM	617	CG		A 60		10.649 9.509	_	4.612	1.00	40.77		С
MOTA	618	CD1	LEU	A 6	08	12.002		4.572	1.00	39.90		С
ATOM	619		LEU	A 6	00 00	9.135			1.00	38.61		С
ATOM	620	C O		A 6		8.477		5.840	1.00	38.85		0
ATOM	621 622	N		A 6		9.819		5.137	1.00	39.17		N
MOTA	623	CA		A 6		9.766			1.00	40.69		C
MOTA MOTA	624	c		A 6		8.406	44.845		1.00	42.50		C O
ATOM	625			A 6		7.,921				44.18	:	N
ATOM	626		TRP	A 6	10	7.773			1.00	42.62 42.74		C
ATOM	627			A 6		6.474			1.00	42.74		č
ATOM	628			A 6		6.133			1.00	44.55		č
ATOM	629	CG		A 6		4.733			1.00	45.24		С
MOTA	630		TRP	A 6	10	4.205			1.00	43.72		С
MOTA	631		TRP	A 6	10	2.834			1.00	47.28		С
MOTA	632	CE:	TRP	A 6	10	4.763 3.686			1.00	42.47		С
ATOM	633	CD:	TRP TRP	V C	10	2.548			1.00	3 43.12		N
MOTA	634 635		TRP	дб	10	1.999		5.361	1.0	44.90		C
ATOM	635 636	C2.	TRP	A 6	10	3.922			1.0	0 48.40		С
MOTA	0.50	- Ju										

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ATOM 637 CH2 TRP A 610			2 559 50 426 6.194 1.00 46.55
ATOM 638 C TRP A 610	MOTA	637 CH2 TRP A 610	2.333 30.134 6 076 1 00 41 95
ARTON 639 0 TRP A 610			3.399 41.38
ATON 640 N ARG A 611			4.000 43.031
ATOM 641 CA ARS A 611 ATOM 642 CB ARG A 611 ATOM 643 CG ARG A 611 ATOM 644 CD ARG A 611 ATOM 645 CD ARG A 611 ATOM 647 ATOM 648 CZ ARG A 611 ATOM 648 CZ ARG A 611 ATOM 649 CD ARG A 612 ATOM 649 CD ARG A 614 ATOM 649 CD ARG A 614 ATOM 640 CD A			3.370 43.034 4 00 41 03
AROM 642 CB ARG A 611 4.605 41.755 3.053 1.00 31.55 AROM 644 CD ARG A 611 4.033 40.923 2.101 1.00 31.17 AROM 645 NE ARG A 611 4.033 40.923 2.101 1.00 31.17 AROM 645 NE ARG A 611 5.255 40.145 2.164 1.00 32.10 AROM 646 CZ ARG A 611 6.310 40.923 2.101 1.00 31.27 AROM 649 NH2 ARG A 611 6.310 40.923 2.101 1.00 31.27 AROM 649 C ARG A 611 7.418 39.62 1.591 1.00 32.40 AROM 649 NH2 ARG A 611 7.418 39.62 7.505 1.00 43.41 AROM 649 C ARG A 611 3.422 42.166 7.505 1.00 43.41 AROM 649 C ARG A 611 3.422 42.166 7.505 1.00 43.41 AROM 650 C ARG A 612 5.950 41.595 8.750 1.00 43.41 AROM 650 C SER A 612 5.950 41.595 8.750 1.00 44.51 AROM 651 C SER A 612 5.950 41.595 8.750 1.00 44.51 AROM 652 CR SER A 612 7.949 40.301 8.249 1.00 44.54 AROM 655 C SER A 612 7.949 40.301 8.249 1.00 44.54 AROM 656 C SER A 612 7.949 40.301 8.249 1.00 44.54 AROM 656 C SER A 612 4.557 44.54 4.1393 10.752 1.00 47.45 AROM 656 C SER A 612 4.573 42.054 10.651 1.00 47.66 AROM 656 C SER A 613 5.250 44.738 10.752 1.00 49.45 AROM 656 C SER A 613 5.250 44.738 10.752 1.00 49.45 AROM 656 C SER A 613 5.250 44.738 10.752 1.00 49.45 AROM 656 C SER A 613 5.250 44.738 10.752 1.00 49.45 AROM 656 C SER A 613 5.250 47.308 10.752 1.00 49.45 AROM 656 C SER A 613 5.250 47.308 10.752 1.00 49.45 AROM 656 C SER A 613 5.250 47.308 10.749 1.00 49.756 AROM 656 C SER A 613 5.250 47.308 10.752 1.00 49.45 AROM 656 C SER A 613 5.250 47.308 10.752 1.00 49.45 AROM 656 C SER A 613 5.250 47.308 10.752 1.00 49.45 AROM 656 C SER A 613 5.250 47.308 10.752 1.00 49.45 AROM 656 C SER A 613 5.250 47.308 10.752 1.00 49.45 AROM 656 C SER A 613 5.250 47.308 10.752 1.00 49.45 AROM 656 C SER A 613 5.250 47.308 10.749 1.00 39.72 AROM 656 C SER A 614 5.250 40.508 10.499 1.00 39.72 AROM 656 C SER A 614 5.250 40.508 10.499 1.00 39.72 AROM 656 C SER A 614 5.250 40.508 10.499 1.00 39.72 AROM 656 C SER A 614 5.250 40.508 10.499 1.00 39.72 AROM 657 C C RAR A 613 5.250 47.308 10.752 1.00 59.95 AROM 657 C C RAR A 614 5.250 40.508 10.008 10.009 10.00 59.35 AROM 657 C C RAR A 614 5.250 40.508 10.008 10.009 10.00 59.			4.403 12.00 4 451 1 00 35 31
ATOM 643 CG ARG A 611 4.209 40.923 2.181 1.00 31.17 ATOM 645 NE ARG A 611 5.255 0.1015 2.164 1.00 32.07 ATOM 646 CZ ARG A 611 6.310 40.400 1.398 1.00 32.07 ATOM 647 NHI ARG A 611 6.310 40.400 1.398 1.00 32.07 ATOM 648 NHI ARG A 611 4.418 39.667 1.581 1.00 31.27 ATOM 649 C ARG A 611 4.498 42.24 6.903 1.00 43.13 ATOM 649 C ARG A 611 4.498 42.24 6.903 1.00 43.13 ATOM 650 N SRR A 612 5.720 42.166 7.426 1.00 44.51 ATOM 651 N SRR A 612 5.720 42.166 7.426 1.00 44.51 ATOM 652 CA SER A 612 5.950 41.595 8.750 1.00 44.51 ATOM 653 CB SER A 612 7.949 40.301 8.249 1.00 44.56 ATOM 654 G SER A 612 7.949 40.301 8.249 1.00 44.56 ATOM 655 C SER A 612 4.573 42.054 10.651 1.00 44.76 ATOM 655 C SER A 612 4.573 42.054 10.651 1.00 44.76 ATOM 656 C SER A 612 4.573 42.054 10.651 1.00 44.76 ATOM 657 N TYR A 613 5.290 44.738 10.752 1.00 49.45 ATOM 658 CA TYR A 613 5.290 44.738 10.752 1.00 49.45 ATOM 650 C STR A 613 5.290 44.738 10.752 1.00 49.45 ATOM 660 CG TYR A 613 5.290 44.738 10.752 1.00 49.45 ATOM 660 CG TYR A 613 5.290 44.738 10.752 1.00 49.45 ATOM 661 CDI TYR A 613 5.230 47.308 11.00 10.00 46.02 ATOM 662 CEL TYR A 613 5.230 47.308 11.00 10.00 40.02 ATOM 663 CD TYR A 613 5.230 47.308 11.00 10.00 40.02 ATOM 664 CEZ TYR A 613 5.230 47.308 11.00 10.00 40.02 ATOM 666 CF TYR A 613 5.230 47.308 11.00 10.00 40.02 ATOM 666 CF TYR A 613 5.230 47.308 11.00 10.00 40.02 ATOM 666 CF TYR A 613 5.230 47.308 11.00 10.00 40.02 ATOM 667 C TYR A 613 4.157 49.655 11.207 10.00 39.52 ATOM 668 C TYR A 613 5.230 47.308 11.00 10.00 40.02 ATOM 668 C TYR A 613 5.230 47.308 11.00 10.00 40.02 ATOM 668 C TYR A 613 5.230 47.308 11.00 10.00 40.02 ATOM 669 C C TYR A 613 4.157 49.655 11.207 10.00 39.96 ATOM 660 C C TYR A 613 4.157 49.655 11.20 50.00 50.00 40.00 50.0			3.003 3.003 1.00 31.56
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ATOM 659 R TYR A 613		2 (12)	4.575 42.054 40.000
ATOM 659 CB TYR A 613			3./34 43.133
ATOM 659 CB TTR À 613 ATOM 660 CG TYR À 613 ATOM 661 CDI TTR À 613 ATOM 662 CEI TYR À 613 ATOM 663 CDZ TYR À 613 ATOM 664 CEZ TYR À 613 ATOM 665 CZ TYR À 613 ATOM 665 CZ TYR À 613 ATOM 666 CDZ TYR À 613 ATOM 666 CDZ TYR À 613 ATOM 667 CDZ ATOM 668 CDZ TYR À 613 ATOM 669 N ARG À 614 ATOM 670 CA ARG À 614 ATOM 671 CB ARG À 614 ATOM 671 CB ARG À 614 ATOM 672 CG ARG À 614 ATOM 673 CD ARG À 614 ATOM 673 CD ARG À 614 ATOM 674 ME ARG À 614 ATOM 675 CT ARG À 614 ATOM 675 CA ARG À 614 ATOM 676 CA ARG À 614 ATOM 677 CDA ARG À 614 ATOM 678 CDA ARG À 614 ATOM 678 CDA ARG À 614 ATOM 678 CDA ARG À 614 ATOM 679 CDA ARG À 615 ATOM 680 NGAN À 615 ATOM 681 CA GIN À 615 ATOM 682 CDG IN À 615 ATOM 683 CC GIN À 615 ATOM 686 CDE GIN À 615 ATOM 686 CDE GIN À 615 ATOM 687 CC GIN À 615 ATOM 688 CDG GIN À 615 ATOM 689 CC GIN À 615 A			5.290 44.738 10.752 1.00 49.43
ATOM 661 CG TYR A 613 ATOM 661 CG TYR A 613 ATOM 662 CEL TYR A 613 ATOM 663 CDZ TYR A 613 ATOM 663 CDZ TYR A 613 ATOM 663 CDZ TYR A 613 ATOM 664 CEZ TYR A 613 ATOM 665 CZ TYR A 613 ATOM 666 CH TYR A 613 ATOM 667 CT TYR A 613 ATOM 668 O TYR A 613 ATOM 669 N ARG A 614 ATOM 667 CT ARG A 614 ATOM 671 CB ARG A 614 ATOM 671 CB ARG A 614 ATOM 672 CG ARG A 614 ATOM 673 CD ARG A 614 ATOM 673 CD ARG A 614 ATOM 673 CD ARG A 614 ATOM 675 CZ ARG A 614 ATOM 676 N ARG A 614 ATOM 676 N ARG A 614 ATOM 677 NH2 ARG A 614 ATOM 676 N ARG A 614 ATOM 677 NH2 ARG A 614 ATOM 678 C ARG A 614 ATOM 678 C ARG A 614 ATOM 679 C ARG A 614 ATOM 678 C ARG A 614 ATOM 678 C ARG A 614 ATOM 678 C C ARG A 614 ATOM 679 C ARG A 614 ATOM 680 N GUN A 615 ATOM 680 N GUN A 615 ATOM 680 C GUN A 615 ATOM 680		7.012	6.026 46.058 10.491 1.00 46.02
ATOM 661 CD1 TYR A 613 ATOM 662 CE1 TYR A 613 ATOM 663 CD2 TYR A 613 ATOM 663 CD2 TYR A 613 ATOM 664 CE2 TYR A 613 ATOM 665 CZ TYR A 613 ATOM 666 CD1 TYR A 613 ATOM 666 CD1 TYR A 613 ATOM 666 CD1 TYR A 613 ATOM 667 CD1 TYR A 613 ATOM 668 CD2 TYR A 613 ATOM 668 CD2 TYR A 613 ATOM 669 N ARC A 614 ATOM 669 N ARC A 614 ATOM 670 CA ARC A 614 ATOM 671 CB ARC A 614 ATOM 671 CB ARC A 614 ATOM 672 CD ARC A 614 ATOM 673 CD ARC A 614 ATOM 673 CD ARC A 614 ATOM 675 CZ ARC A 614 ATOM 675 CZ ARC A 614 ATOM 676 NH1 ARC A 614 ATOM 677 NH2 ARC A 614 ATOM 678 C ARC A 614 ATOM 679 O ARC A 614 ATOM 679 C ARC A 615 ATOM 679 C ARC A 614 ATOM 679 C ARC A 614 ATOM 679 C ARC A 615 ATOM 679 C ARC A 614 ATOM 679 C ARC A 614 ATOM 679 C ARC A 615 ATOM 679 C ARC A 614 ATOM 679 C ARC A 614 ATOM 679 C ARC A 614 ATOM 679 C ARC A 615 ATOM 681 CA GIN A 615 ATOM 682 CD GIN A 615 ATOM 683 CG GIN A 615 ATOM 684 CD GIN A 615 ATOM 686 CR C CR CR ARC A 614 ATOM 686 CR C CR CR ARC A 614 ATOM 687 C ARC A 614 ATOM 688 C CR GIN A 615 ATOM 689 N SER A 616 ATOM 680 N GIN A 615 ATOM 680 N G		(12	5,230 47,308 10,749 1,00 39,72
ATOM 662 CEI TIR A 613			4.879 47.688 12.040 1.00 39.52
ATOM 663 CD2 TRR A 613			4.159 48.855 12.267 1.00 38.96
ATOM 664 CEZ TYR A 613		662 CEI TIR A 613	4.827 48.110 9.697 1.00 37.42
ATOM 665 CZ TYR A 613 3.779 49.635 11.193 1.00 37.49 ATOM 666 OR TYR A 613 3.784 44.948 10.656 1.00 52.98 ATOM 666 OR TYR A 613 3.784 44.948 10.656 1.00 52.98 ATOM 667 C TYR A 613 3.082 45.141 11.656 1.00 52.98 ATOM 669 N ARG A 614 1.895 44.886 9.429 1.00 56.04 ATOM 670 CA ARG A 614 1.895 45.111 91.69 1.00 59.35 ATOM 671 CB ARG A 614 1.717 45.463 7.691 1.00 61.72 ATOM 671 CB ARG A 614 1.717 45.463 7.691 1.00 66.15 ATOM 673 CD ARG A 614 1.717 45.463 7.691 1.00 66.15 ATOM 673 CD ARG A 614 1.029 45.367 7.188 1.00 66.15 ATOM 673 CD ARG A 614 1.029 45.367 7.188 1.00 66.15 ATOM 673 CD ARG A 614 1.029 45.367 7.553 1.00 69.45 ATOM 673 CD ARG A 614 1.029 45.367 7.553 1.00 69.45 ATOM 675 CZ ARG A 614 1.038 48.846 7.421 1.00 69.24 ATOM 675 CZ ARG A 614 1.038 48.846 7.421 1.00 69.24 ATOM 675 NHI ARG A 614 1.038 48.846 7.421 1.00 69.24 ATOM 678 C ARG A 614 1.038 43.921 9.566 1.00 60.21 ATOM 679 NHZ ARG A 614 1.038 43.921 9.566 1.00 60.21 ATOM 679 O ARG A 615 1.621 42.726 9.571 1.00 61.96 ATOM 680 N GLN A 615 1.621 42.726 9.571 1.00 63.92 ATOM 680 CB GLN A 615 1.621 42.726 9.571 1.00 63.92 ATOM 680 CB GLN A 615 1.621 42.726 9.571 1.00 63.92 ATOM 682 CB GLN A 615 1.444 40.354 9.069 1.00 63.82 ATOM 683 CG GLN A 615 1.444 40.354 9.069 1.00 63.82 ATOM 680 NEZ GLN A 615 1.444 40.354 9.069 1.00 63.82 ATOM 680 CB GLN A 615 1.138 37.514 9.950 1.00 68.86 ATOM 680 CB GLN A 615 1.138 37.514 9.950 1.00 68.86 ATOM 680 CB GLN A 615 1.907 41.780 12.111 1.00 67.72 ATOM 680 CB GLN A 615 1.907 41.780 12.111 1.00 67.72 ATOM 680 CB GLN A 615 1.907 41.780 12.111 1.00 67.72 ATOM 680 CB GLN A 615 1.907 41.780 12.111 1.00 67.72 ATOM 680 CB GLN A 615 1.907 41.780 12.111 1.00 67.72 ATOM 680 CB GLN A 615 1.907 41.780 12.111 1.00 67.72 ATOM 680 CB GLN A 615 1.907 41.780 12.111 1.00 67.72 ATOM 680 CB GLN A 615 1.907 41.780 12.111 1.00 67.72 ATOM 680 CB GLN A 616 1.907 41.780 12.111 1.00 67.72 ATOM 680 CB GLN A 616 1.907 41.780 12.111 1.00 67.72 ATOM 680 CB GLN A 616 1.907 41.780 12.111 1.00 67.72 ATOM 680 CB GLN A 616 1.907 41.780 12.111 1.00 67.72 ATOM			A 115 49 266 9.913 1.00 36.61
ATOM 666 66 OR TYR A 613 3.130 50.824 11.393 1.00 34.70 ATOM 667 C TYR A 613 3.784 44.986 10.656 1.00 52.41 ATOM 668 0 TYR A 613 3.082 45.141 11.656 1.00 52.91 ATOM 668 0 TYR A 613 3.082 45.141 11.656 1.00 52.91 ATOM 670 CA ARG A 614 1.895 45.111 9.169 1.00 59.35 ATOM 671 CB ARG A 614 1.895 45.111 9.169 1.00 59.35 ATOM 671 CB ARG A 614 1.717 45.463 7.691 1.00 66.15 ATOM 672 CG ARG A 614 0.299 45.367 7.188 1.00 66.15 ATOM 673 CD ARG A 614 -0.201 46.679 6.575 1.00 69.96 ATOM 674 NE ARG A 614 -0.201 46.679 6.575 1.00 69.96 ATOM 675 CZ ARG A 614 -1.038 48.846 7.421 1.00 69.24 ATOM 676 NHL ARG A 614 -1.062 49.741 8.399 1.00 69.78 ATOM 677 NH2 ARG A 614 -1.062 49.741 8.399 1.00 69.78 ATOM 678 C ARG A 614 -0.128 44.090 9.901 1.00 61.10 ATOM 679 O ARG A 614 -0.128 44.090 9.901 1.00 61.10 ATOM 680 N GLN A 615 0.876 11.513 9.913 1.00 63.75 ATOM 681 CA GLN A 615 0.876 41.513 9.913 1.00 63.75 ATOM 682 CB GLN A 615 0.876 41.513 9.913 1.00 63.75 ATOM 683 CG GLN A 615 0.876 41.513 9.913 1.00 63.75 ATOM 684 CD GLN A 615 0.876 41.513 9.913 1.00 63.75 ATOM 686 NEZ GLN A 615 1.414 40.354 9.669 1.00 63.82 ATOM 686 NEZ GLN A 615 0.876 41.513 9.950 1.00 63.82 ATOM 687 C GLN A 615 0.876 41.513 9.950 1.00 63.82 ATOM 688 O GLN A 615 0.876 41.513 9.950 1.00 68.30 ATOM 689 N SER A 616 ATOM 689 N SER A 616 1.907 41.780 12.111 0.00 67.26 ATOM 689 O SER A 616 1.907 41.780 12.111 0.00 67.26 ATOM 690 CA SER A 616 1.907 41.780 12.111 0.00 67.26 ATOM 691 CB SER A 616 3.962 43.969 13.06 68.30 ATOM 692 O SER A 616 3.962 43.969 13.006 69.83 ATOM 694 O SER A 616 3.962 43.999 15.104 1.00 72.26 ATOM 699 C CA SER A 617 4.976 43.999 15.104 1.00 72.26 ATOM 699 C CA SER A 617 4.976 43.999 15.104 1.00 72.26 ATOM 699 C CA SER A 617 4.976 43.9999 15.104 1.00 72.26 ATOM 699 C CA SER A 617 4.976 43.999 15.104 1.00 72.26 ATOM 699 C CA SER A 617 4.976 43.9999 15.104 1.00 774.66 ATOM 699 C CA SER A 617 4.976 43.9999 1.00 61.71.61 ATOM 700 C CA ALA A 618 4.999 42.026 16.990 1.00 74.66 ATOM 701 N ALA A 618 5.999 41.374 11.00 771.64 ATOM 702 C A ALA A 618 5.999 41.		664 CEZ TIR A 613	2 770 49 635 11.193 1.00 3/.44
ATOM 666 O TTR A 613 3.082 45.141 11.656 1.00 52.98 ATOM 668 O TTR A 613 3.082 45.141 11.656 1.00 52.98 ATOM 669 N ARG A 614 3.295 44.886 9.429 1.00 56.04 ATOM 670 CA ARG A 614 1.895 45.111 9.169 1.00 59.35 ATOM 671 CB ARG A 614 1.895 45.111 9.169 1.00 59.35 ATOM 672 CG ARG A 614 0.299 45.367 7.188 1.00 66.15 ATOM 673 CD ARG A 614 -0.201 46.679 6.575 1.00 69.45 ATOM 674 NE ARG A 614 -0.214 47.765 7.553 1.00 69.45 ATOM 675 CZ ARG A 614 -1.038 48.846 7.421 1.00 69.24 ATOM 676 NH1 ARG A 614 -1.038 48.846 7.421 1.00 69.24 ATOM 677 NH2 ARG A 614 -1.062 49.741 8.399 1.00 69.78 ATOM 678 C ARG A 614 -0.128 44.090 9.301 1.00 61.10 ATOM 678 C ARG A 614 -0.128 44.090 9.301 1.00 61.11 ATOM 678 C ARG A 615 1.621 42.726 9.571 1.00 61.36 ATOM 680 N GLN A 615 1.621 42.726 9.571 1.00 61.36 ATOM 681 CA GLN A 615 0.876 41.513 ATOM 682 CB GLN A 615 0.365 39.341 8.617 1.00 65.38 ATOM 684 CD GLN A 615 0.365 39.341 8.617 1.00 65.38 ATOM 686 NE2 GLN A 615 0.365 39.341 8.617 1.00 65.38 ATOM 687 C GLN A 615 0.365 39.341 8.617 1.00 66.86 ATOM 688 O GLN A 615 1.138 37.514 9.990 1.00 63.82 ATOM 686 NE2 GLN A 615 0.365 39.341 8.617 1.00 65.38 ATOM 687 C GLN A 615 0.365 39.341 8.617 1.00 66.88 6 ATOM 689 O SER A 616 0.304 38.022 1.00 67.72 ATOM 689 O SER A 616 0.304 38.022 1.00 67.72 ATOM 689 O SER A 616 0.304 38.022 1.00 67.72 ATOM 689 O SER A 616 0.937 41.185 11.444 1.00 64.87 ATOM 690 CA SER A 616 2.096 41.547 13.545 1.00 69.98 ATOM 691 CB SER A 616 3.004 39.899 15.104 1.00 69.86 ATOM 690 CA SER A 616 3.004 39.899 15.104 1.00 69.86 ATOM 690 CA SER A 616 3.004 39.899 15.104 1.00 69.88 ATOM 690 CA SER A 616 3.004 39.899 15.104 1.00 67.26 ATOM 697 C SER A 617 4.990 43.363 17.404 1.00 70.23 ATOM 698 O SER A 617 1.875 45.694 15.998 1.00 67.72 ATOM 699 C SER A 617 4.990 43.363 17.404 1.00 70.23 ATOM 700 O SER A 617 4.990 43.363 17.404 1.00 70.246 ATOM 700 C SER A 617 4.990 43.363 17.404 1.00 70.26 ATOM 700 C SER A 617 4.990 43.363 17.404 1.00 70.26 ATOM 700 C SER A 617 4.990 43.366 17.404 1.00 70.166 ATOM 700 C SER A 617 4.990 43.366 17.404 1.0	ATOM		3 130 50.824 11.393 1.00 34.70
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ATOM 693 C SER A 616 3.962 43.096 13.644 1.00 70.23 ATOM 694 O SER A 617 2.681 42.872 15.495 1.00 71.63 ATOM 695 N SER A 617 3.437 43.822 16.307 1.00 72.46 ATOM 696 CA SER A 617 2.488 44.879 16.914 1.00 73.51 ATOM 697 CB SER A 617 1.875 45.694 15.908 1.00 74.66 ATOM 698 OG SER A 617 4.176 43.043 17.404 1.00 73.15 ATOM 699 C SER A 617 4.090 43.363 18.585 1.00 73.15 ATOM 700 O SER A 618 4.919 42.026 16.980 1.00 71.68 ATOM 701 N ALA A 618 4.919 42.026 16.980 1.00 71.19 ATOM 702 CA ALA A 618 5.690 41.174 17.874 1.00 71.19 ATOM 703 CB ALA A 618 6.182 39.993 17.044 1.00 71.07 ATOM 704 C ALA A 618 6.182 39.993 17.044 1.00 71.07 ATOM 705 O ALA A 618 5.415 39.458 16.251 1.00 71.64 ATOM 706 N ASN A 619 7.464 39.635 17.200 1.00 70.12 ATOM 707 CA ASN A 619 7.525 37.149 16.939 1.00 70.83 ATOM 708 CB ASN A 619 7.525 37.149 16.939 1.00 70.83 ATOM 709 CG ASN A 619 7.550 36.937 18.452 1.00 72.69 ATOM 710 OD1 ASN A 619 7.550 36.937 18.452 1.00 72.69 ATOM 710 OD1 ASN A 619 7.820 38.610 15.001 1.00 66.42 ATOM 712 C ASN A 619 7.820 38.610 15.001 1.00 66.42 ATOM 713 O ASN A 619 7.820 38.610 15.001 1.00 66.42 ATOM 714 N LEU A 620 7.675 37.283 12.999 1.00 61.17 ATOM 715 CA LEU A 620 7.675 37.283 12.999 1.00 61.73 ATOM 715 CA LEU A 620 7.675 37.283 12.999 1.00 61.73			2 002 42 581 14 236 1.00 70.29
ATOM 695 N SER A 617		693 C SER A 616	3.063 43.096 13.644 1.00 70.23
ATOM 695 N SER A 617 ATOM 696 CA SER A 617 ATOM 697 CB SER A 617 ATOM 698 OG SER A 617 ATOM 698 OG SER A 617 ATOM 699 C SER A 617 ATOM 700 O SER A 617 ATOM 700 N ALA A 618 ATOM 701 N ALA A 618 ATOM 702 CA ALA A 618 ATOM 703 CB ALA A 618 ATOM 704 C ALA A 618 ATOM 705 O ALA A 618 ATOM 706 N ASN A 619 ATOM 707 CA ASN A 619 ATOM 708 CB ASN A 619 ATOM 709 CG ASN A 619 ATOM 701 NDL ASN A 619 ATOM 701 CA ASN A 619 ATOM 702 CA ASN A 619 ATOM 703 CB ASN A 619 ATOM 705 CB ASN A 619 ATOM 706 N ASN A 619 ATOM 707 CA ASN A 619 ATOM 708 CB ASN A 619 ATOM 709 CG ASN A 619 ATOM 710 OD1 ASN A 619 ATOM 711 ND2 ASN A 619 ATOM 712 C ASN A 619 ATOM 713 O ASN A 619 ATOM 714 N LEU A 620 ATOM 715 CA LEU A 620 ATOM 715 CA LEU A 620 ATOM 716 CB LEU A 620 ATOM 7176 CB LEU A 620 ATOM 718		694 O SER A 616	0 601 42 972 15 495 1.00 71.63
ATOM 696 CA SER A 617	MOTA	695 N SER A 617	2.427 43 822 16 307 1.00 72.46
ATOM 697 CB SER A 617 ATOM 698 OG SER A 617 ATOM 699 C SER A 617 ATOM 699 C SER A 617 ATOM 700 O SER A 617 ATOM 701 N ALA A 618 ATOM 702 CA ALA A 618 ATOM 702 CA ALA A 618 ATOM 704 C ALA A 618 ATOM 705 O ALA A 618 ATOM 706 N ASN A 619 ATOM 706 N ASN A 619 ATOM 707 CA ASN A 619 ATOM 708 CB ASN A 619 ATOM 709 CG ASN A 619 ATOM 710 OD1 ASN A 619 ATOM 710 ASN A 619 ATOM 711 ND2 ASN A 619 ATOM 712 C ASN A 619 ATOM 713 C ASN A 619 ATOM 714 N LEU A 620 ATOM 715 CA LEU A 620 ATOM 715 CA LEU A 620 ATOM 716 CB LEU A 620 ATOM 717 CB ASM A 619 ATOM 718 CB LEU A 620 ATOM 718 CB			2 488 44 879 16.914 1.00 73.51
ATOM 698 OG SER A 617 ATOM 699 C SER A 617 ATOM 700 O SER A 617 ATOM 701 N ALA A 618 ATOM 702 CA ALA A 618 ATOM 703 CB ALA A 618 ATOM 704 C ALA A 618 ATOM 705 O ALA A 618 ATOM 706 N ASN A 619 ATOM 707 CA SASN A 619 ATOM 708 CB ASN A 619 ATOM 710 OD1 ASN A 619 ATOM 710 OD1 ASN A 619 ATOM 711 ND2 ASN A 619 ATOM 712 C ASN A 619 ATOM 713 O ASN A 619 ATOM 714 N LEU A 620 ATOM 715 CA LEU A 620 ATOM 715 CA LEU A 620 ATOM 716 CB LEU A 620 ATOM 7176 CB LEU A 620 ATOM 718 CB LEU A 620 ATOM		697 CB SER A 617	1 075 45 604 15 908 1.00 74.66
ATOM 700 CA SER A 617 4.090 43.363 18.585 1.00 73.15 ATOM 700 N ALA A 618 4.919 42.026 16.980 1.00 71.68 ATOM 701 N ALA A 618 5.690 41.174 17.874 1.00 71.19 ATOM 703 CB ALA A 618 4.798 40.687 19.050 1.00 71.51 ATOM 704 C ALA A 618 6.182 39.993 17.044 1.00 71.07 ATOM 705 O ALA A 618 5.415 39.458 16.251 1.00 71.64 ATOM 706 N ASN A 619 7.464 39.635 17.200 1.00 70.12 ATOM 707 CA AASN A 619 8.100 38.512 816.486 1.00 68.44 ATOM 708 CB ASN A 619 7.525 37.149 16.939 1.00 70.83 ATOM 709 CG ASN A 619 7.550 36.937 18.452 1.00 72.69 ATOM 710 OD1 ASN A 619 8.504 37.315 19.136 1.00 72.29 ATOM 711 ND2 ASN A 619 6.503 36.288 18.973 1.00 72.29 ATOM 711 ND2 ASN A 619 7.820 38.610 15.001 1.00 66.42 ATOM 713 O ASN A 619 7.820 38.610 15.001 1.00 66.42 ATOM 713 O ASN A 619 7.850 37.474 14.328 1.00 63.53 ATOM 714 N LEU A 620 7.675 37.283 12.909 1.00 61.17 ATOM 715 CA LEU A 620 7.675 37.283 12.909 1.00 61.73 ATOM 716 CB LEU A 620 7.675 37.519 12.60 61.73	MOTA	698 OG SER A 617	1.010 1010 101 100 72 58
ATOM 700 O SER A 617 4.090 42.026 16.980 1.00 71.68 ATOM 701 N ALA A 618 5.690 41.174 17.874 1.00 71.19 ATOM 703 CB ALA A 618 6.182 39.993 17.044 1.00 71.07 ATOM 705 O ALA A 618 6.182 39.993 17.044 1.00 71.07 ATOM 705 O ALA A 618 7.464 39.635 17.200 1.00 71.64 ATOM 705 N ASN A 619 7.464 39.635 17.200 1.00 70.12 ATOM 707 CA *ASN A 619 7.525 37.149 16.939 1.00 70.83 ATOM 708 CB ASN A 619 7.525 37.149 16.939 1.00 70.83 ATOM 709 CG ASN A 619 7.550 36.937 18.452 1.00 72.69 ATOM 710 OD1 ASN A 619 8.504 37.315 19.136 1.00 73.24 ATOM 711 ND2 ASN A 619 7.820 38.610 15.001 1.00 66.42 ATOM 712 C ASN A 619 7.820 38.610 15.001 1.00 66.42 ATOM 713 O ASN A 619 7.820 38.610 15.001 1.00 66.42 ATOM 714 N LEU A 620 7.675 37.283 12.909 1.00 61.73 ATOM 715 CA LEU A 620 7.675 37.283 12.909 1.00 61.73 ATOM 715 CA LEU A 620 7.675 37.283 12.909 1.00 61.73		699 C SER A 617	1000 43 363 18 585 1.00 73.15
ATOM 701 N ALA A 618 ATOM 702 CA ALA A 618 ATOM 703 CB ALA A 618 ATOM 704 C ALA A 618 ATOM 705 O ALA A 618 ATOM 706 N ASN A 619 ATOM 707 CA ASN A 619 ATOM 708 CB ASN A 619 ATOM 708 CB ASN A 619 ATOM 709 CG ASN A 619 ATOM 710 OD1 ASN A 619 ATOM 710 N ASN A 619 ATOM 710 ASN A 619 ATOM 710 N ASN A 619 ATOM 710 C ASN A 619 ATOM 711 ND2 ASN A 619 ATOM 712 C ASN A 619 ATOM 713 C ASN A 619 ATOM 714 N LEU A 620 ATOM 715 CA LEU A 620 ATOM 715 CA LEU A 620 ATOM 716 CB LEU A 620 ATOM 717 CA LEU A 620 ATOM 718 CB LEU A 620 ATOM 71		700 O SER A 617	4.090 10.000 1 00 71 68
ATOM 702 CA ALA A 618 4.798 40.687 19.050 1.00 71.51 ATOM 703 CB ALA A 618 6.182 39.993 17.044 1.00 71.07 ATOM 704 C ALA A 618 5.415 39.458 16.251 1.00 71.64 ATOM 705 O ALA A 618 7.464 39.635 17.200 1.00 70.12 ATOM 707 CA ASN A 619 8.100 38.512 316.486 1.00 68.44 ATOM 708 CB ASN A 619 7.525 37.149 16.939 1.00 70.83 ATOM 708 CB ASN A 619 7.550 36.937 18.452 1.00 72.69 ATOM 710 OD1 ASN A 619 8.504 37.315 19.136 1.00 72.29 ATOM 711 ND2 ASN A 619 6.503 36.288 18.973 1.00 72.29 ATOM 712 C ASN A 619 7.820 38.610 15.001 1.00 66.42 ATOM 713 O ASN A 619 7.457 39.668 14.497 1.00 67.27 ATOM 713 O ASN A 619 7.457 39.668 14.497 1.00 67.27 ATOM 715 CA LEU A 620 7.675 37.283 12.909 1.00 61.17 ATOM 716 CB LEU A 620 6.176 37.519 12.694 1.00 61.45 ATOM 716 CB LEU A 620 7.675 37.519 12.694 1.00 61.45 ATOM 716 CB LEU A 620 7.675 37.519 12.694 1.00 61.45 ATOM 716 CB LEU A 620 7.675 37.519 12.694 1.00 61.45 ATOM 716 CB LEU A 620 7.675 37.519 12.694 1.00 61.45 ATOM 716 CB LEU A 620 7.675 37.519 12.694 1.00 61.45 ATOM 716 CB LEU A 620 7.675 37.519 12.694 1.00 61.45		701 N ALA A 618	5 600 41 174 17 874 1.00 71.19
ATOM 703 CB ALA A 618 4.150 39.993 17.044 1.00 71.07 ATOM 704 C ALA A 618 5.415 39.458 16.251 1.00 71.64 ATOM 705 O ALA A 618 7.464 39.635 17.200 1.00 70.12 ATOM 707 CA FASN A 619 8.100 38.512 816.486 1.00 68.44 ATOM 708 CB ASN A 619 7.525 37.149 16.939 1.00 70.83 ATOM 709 CG ASN A 619 7.550 36.937 18.452 1.00 72.69 ATOM 710 OD1 ASN A 619 8.504 37.315 19.136 1.00 72.29 ATOM 711 ND2 ASN A 619 6.503 36.288 18.973 1.00 72.29 ATOM 712 C ASN A 619 7.820 38.610 15.001 1.00 66.42 ATOM 713 O ASN A 619 7.457 39.668 14.497 1.00 67.27 ATOM 713 O ASN A 619 7.457 39.668 14.497 1.00 67.27 ATOM 713 N LEU A 620 7.675 37.283 12.909 1.00 61.17 ATOM 715 CA LEU A 620 7.675 37.283 12.909 1.00 61.17 ATOM 716 CB LEU A 620 6.176 37.519 12.694 1.00 61.45 ATOM 716 CB LEU A 620 7.675 37.519 12.694 1.00 61.45 ATOM 716 CB LEU A 620 7.987 37.519 12.694 1.00 61.45 ATOM 716 CB LEU A 620 7.987 37.519 12.694 1.00 61.45 ATOM 716 CB LEU A 620 7.987 37.519 12.694 1.00 61.45 ATOM 716 CB LEU A 620 7.987 37.519 12.694 1.00 61.45 ATOM 716 CB LEU A 620 7.987 37.519 12.694 1.00 61.45		702 CA ALA A 618	5.090 41.273 10.050 1.00 73 51
ATOM 704 C ALA A 618 5.415 39.458 16.251 1.00 71.64 ATOM 705 O ALA A 618 7.464 39.635 17.200 1.00 70.12 ATOM 706 N ASN A 619 7.464 39.635 17.200 1.00 70.12 ATOM 707 CA **ASN A 619 7.525 37.149 16.939 1.00 70.83 ATOM 709 CG ASN A 619 7.550 36.937 18.452 1.00 72.69 ATOM 710 OD1 ASN A 619 8.504 37.315 19.136 1.00 72.29 ATOM 711 ND2 ASN A 619 7.820 38.610 15.001 1.00 66.42 ATOM 712 C ASN A 619 7.820 38.610 15.001 1.00 66.42 ATOM 713 O ASN A 619 7.457 39.668 14.497 1.00 67.27 ATOM 714 N LEU A 620 7.987 37.474 14.328 1.00 63.53 ATOM 715 CA LEU A 620 7.675 37.283 12.909 1.00 61.17 ATOM 716 CB LEU A 620 6.176 37.519 12.694 1.00 61.45 ATOM 716 CB LEU A 620 7.675 37.519 12.694 1.00 61.45 ATOM 716 CB LEU A 620 7.987 36.520 13.431 1.00 61.73		703 CB ALA A 618	17 044 1 00 71 07
ATOM 705 O ALA A 618 7.464 39.635 17.200 1.00 70.12 ATOM 706 N ASN A 619 8.100 38.512 16.486 1.00 68.44 7TOM 707 CA FASN A 619 7.525 37.149 16.939 1.00 70.83 ATOM 708 CB ASN A 619 7.525 37.149 16.939 1.00 70.83 ATOM 710 OD1 ASN A 619 7.550 36.937 18.452 1.00 72.69 ATOM 711 ND2 ASN A 619 6.503 36.288 18.973 1.00 72.29 ATOM 711 ND2 ASN A 619 7.820 38.610 15.001 1.00 66.42 ATOM 712 C ASN A 619 7.457 39.668 14.497 1.00 67.27 ATOM 713 O ASN A 619 7.457 39.668 14.497 1.00 67.27 ATOM 714 N LEU A 620 7.675 37.283 12.909 1.00 61.17 ATOM 715 CA LEU A 620 7.675 37.283 12.909 1.00 61.73 ATOM 716 CB LEU A 620 6.176 37.519 12.694 1.00 61.45 ATOM 716 CB LEU A 620 6.176 37.519 12.694 1.00 61.73		704 C ALA A 518	0.102 33111 1 00 71 64
ATOM 706 N ASN A 619 7.464 39.635 17.200 10.00 68.44 ATOM 707 CA BASN A 619 7.525 37.149 16.939 1.00 70.83 ATOM 708 CB ASN A 619 7.525 37.149 16.939 1.00 72.69 ATOM 710 OD1 ASN A 619 8.504 37.315 19.136 1.00 72.29 ATOM 711 ND2 ASN A 619 6.503 36.288 18.973 1.00 72.29 ATOM 712 C ASN A 619 7.820 38.610 15.001 1.00 66.42 ATOM 713 O ASN A 619 7.457 39.668 14.497 1.00 67.27 ATOM 713 O ASN A 619 7.457 39.668 14.497 1.00 67.27 ATOM 714 N LEU A 620 7.675 37.283 12.909 1.00 61.17 ATOM 715 CA LEU A 620 7.675 37.283 12.909 1.00 61.17 ATOM 716 CB LEU A 620 6.176 37.519 12.694 1.00 61.45 ATOM 716 CB LEU A 620 6.176 37.519 12.694 1.00 61.45 ATOM 716 CB LEU A 620 6.176 37.519 12.694 1.00 61.73		705 O ALA A 618	5.415
ATOM 707 CA **ASN A 619 7.525 37.149 16.939 1.00 70.83 ATOM 708 CB ASN A 619 7.525 37.149 16.939 1.00 70.83 ATOM 709 CG ASN A 619 7.550 36.937 18.452 1.00 72.69 ATOM 710 OD1 ASN A 619 8.504 37.315 19.136 1.00 72.29 ATOM 711 ND2 ASN A 619 7.820 38.610 15.001 1.00 66.42 ATOM 712 C ASN A 619 7.820 38.610 15.001 1.00 66.42 ATOM 713 O ASN A 619 7.457 39.668 14.497 1.00 67.27 ATOM 714 N LEU A 620 7.987 37.474 14.328 1.00 63.53 ATOM 715 CA LEU A 620 7.675 37.283 12.909 1.00 61.17 ATOM 716 CB LEU A 620 6.176 37.519 12.694 1.00 61.45 ATOM 716 CB LEU A 620 6.176 37.519 12.694 1.00 61.73		706 N ASN A 619	
ATOM 708 CB ASN A 619 7.525 37.149 10.0 72.69 ATOM 709 CG ASN A 619 7.550 36.937 18.452 1.00 72.69 ATOM 710 OD1 ASN A 619 8.504 37.315 19.136 1.00 73.24 ATOM 711 ND2 ASN A 619 7.820 36.288 18.973 1.00 72.29 ATOM 712 C ASN A 619 7.820 38.610 15.001 1.00 66.42 ATOM 713 O ASN A 619 7.457 39.668 14.497 1.00 67.27 ATOM 714 N LEU A 620 7.675 37.283 12.909 1.00 61.17 ATOM 715 CA LEU A 620 7.675 37.283 12.909 1.00 61.17 ATOM 716 CB LEU A 620 6.176 37.519 12.694 1.00 61.45 ATOM 716 CB LEU A 620 5.291 36.520 13.431 1.00 61.73		707 CA FASN A 619	8.100 30.312 36 020 1 00 70 83
ATOM 709 CG ASN A 619 7.550 36.937 18.22 1.00 73.24 ATOM 710 OD1 ASN A 619 8.504 37.315 19.136 1.00 72.29 ATOM 711 ND2 ASN A 619 6.503 36.288 18.973 1.00 72.29 ATOM 712 C ASN A 619 7.820 38.610 15.001 1.00 66.42 ATOM 713 O ASN A 619 7.457 39.668 14.497 1.00 67.27 ATOM 714 N LEU A 620 7.987 37.474 14.328 1.00 63.53 ATOM 714 N LEU A 620 7.675 37.283 12.909 1.00 61.17 ATOM 715 CA LEU A 620 7.675 37.283 12.909 1.00 61.45 ATOM 716 CB LEU A 620 6.176 37.519 12.694 1.00 61.45 ATOM 716 CB LEU A 620 5.291 36.520 13.431 1.00 61.73		708 CB ASN A 619	7.525
ATOM 710 OD1 ASN A 619 8.504 37.315 19.130 10.0 72.29 ATOM 711 ND2 ASN A 619 6.503 36.288 18.973 1.00 72.29 ATOM 712 C ASN A 619 7.820 38.610 15.001 1.00 66.42 ATOM 713 O ASN A 619 7.457 39.668 14.497 1.00 67.27 ATOM 714 N LEU A 620 7.987 37.474 14.328 1.00 63.53 ATOM 715 CA LEU A 620 7.675 37.283 12.909 1.00 61.17 ATOM 716 CB LEU A 620 6.176 37.519 12.694 1.00 61.45 ATOM 716 CB LEU A 620 6.176 37.519 12.694 1.00 61.45		709 CG ASN A 619	10 126 1 00 73 24
ATOM 711 ND2 ASN A 619 7.820 38.610 15.001 1.00 66.42 ATOM 712 C ASN A 619 7.820 38.610 15.001 1.00 67.27 ATOM 713 O ASN A 619 7.457 39.668 14.497 1.00 67.27 ATOM 714 N LEU A 620 7.987 37.474 14.328 1.00 63.53 ATOM 715 CA LEU A 620 7.675 37.283 12.909 1.00 61.17 ATOM 716 CB LEU A 620 6.176 37.519 12.694 1.00 61.45 ATOM 716 CB LEU A 620 6.176 37.519 12.694 1.00 61.45		710 OD1 ASN A 619	8.504 37.553 12.073 1.00 72.29
ATOM 712 C ASN A 619 7.820 38.668 14.497 1.00 67.27 ATOM 713 O ASN A 619 7.457 39.668 14.497 1.00 63.53 ATOM 714 N LEU A 620 7.987 37.474 14.328 1.00 63.53 ATOM 715 CA LEU A 620 7.675 37.283 12.909 1.00 61.17 ATOM 716 CB LEU A 620 6.176 37.519 12.694 1.00 61.45 ATOM 716 CB LEU A 620 5.291 36.520 13.431 1.00 61.73		711 ND2 ASN A 619	6.303 30.203 15 001 1 00 66 42
ATOM 713 0 ASN A 619 7.457 39.666 14.77 14.328 1.00 63.53 ATOM 714 N LEU A 620 7.675 37.283 12.909 1.00 61.17 ATOM 715 CA LEU A 620 7.675 37.283 12.909 1.00 61.45 ATOM 716 CB LEU A 620 6.176 37.519 12.694 1.00 61.45 ATOM 716 CB LEU A 620 5.291 36.520 13.431 1.00 61.73		712 C ASN A 619	7.820 30.010 10.007 1 00 67 27
ATOM 714 N LEU A 620 7.987 37.474 14.22 12.909 1.00 61.17 ATOM 715 CA LEU A 620 7.675 37.283 12.909 1.00 61.17 ATOM 716 CB LEU A 620 6.176 37.519 12.694 1.00 61.45 ATOM 716 CB LEU A 620 6.176 37.519 12.694 1.00 61.73		713 O ASN A 619	7.437
ATOM 715 CA LEU A 620 7.675 37.283 12.694 1.00 61.45 ATOM 716 CB LEU A 620 6.176 37.519 12.694 1.00 61.45		714 N LEU A 620	7.987
ATOM 716 CB LEU A 620 6.176 37.319 12.334 1.00 61.73		715 CA LEU A 620	7,675 57.205 12 604 1 00 61.45
8104 Ten ac 1811 à 620 5 291 36.520 15.451 1100		716 CB LEU A 620	0.170 37.533 12.431 1 00 61.73
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ATOM	718	CD1	LEU A	A	620	3.846	36.973	13.422		61.94	
	719		LEU Z			5.463	35.155	12.798	1.00	62.76	С
MOTA						8.386	37.899	11.722	1.00	59.14	С
ATOM	720	C	LEU			9.041	38.943	11.785		59.57	0
ATOM	721	0	LEU /								N
ATOM	722	N	LEU A	A	621	8.195	37.194	10.615		56.65	
ATOM	723	CA	LEU 2	A	621	8.708	37.540	9.307		55.25	C
		СВ	LEU			10.045	36.859	9.023	1.00	56.50	С
ATOM	724					11.339	37.679	9.165	1.00	58.03	С
ATOM	725	CG	LEU 7							58.11	С
ATOM	726	CD1	LEU 2	A	621	12.507	36.909	8.514			č
MOTA	727	CD2	LEU 2	A	621	11.169	39.058	8.510		55.91	
		C	LEU			7.656	36.988	8.367	1.00	53.52	С
MOTA	728					7.488	35.775	8.267	1.00	50.87	0
ATOM	729	0	LEU 2							52.96	N
ATOM	730	N	CYS 3	A	622	6.952	37.879	7.682			č
MOTA	731	CA	CYS 3	A	622	5.900	37.461	6.780		54.54	
		CB	CYS .			4.686	38.369	6.983	1.00	55.42	C
ATOM	732					3.205	37.752	6.180	1.00	60.90	S
MOTA	733	SG	CYS .					5.302		54.09	С
ATOM	734	С	CYS .			6.314	37.425			53.78	Ō
ATOM	735	0	CYS .	A	622	5.954	38.301	4.513			
ATOM	736	N	PHE	A	623	7.062	36.392	4.924		55.17	N
	_	CA	PHE			7.519	36.257	3.542	1.00	56.37	С
MOTA	737					8.329	34.979	3.371	1.00	55.59	С
MOTA	738	CB	PHE					4.118		57.62	С
ATOM	739	CG	PHE			9.616	34.982				Ċ
ATOM	740	CD1	PHE	A	623	10.677	35.787	3.712		59.06	č
ATOM	741	CD2	PHE	A	623	9.772	34.178	5.240		57.97	
	742		PHE			11.885	35.788	4.417	1.00	59.87	C
ATOM						10.965	34.168	5.956	1.00	57.83	С
MOTA	743		PHE					5.547		58.68	С
ATOM	744	CZ	PHE	A	623	12.027	34.973				Ċ
ATOM	745	С	PHE	A	623	6.335	36.241	2.595		56.58	
ATOM	746	0	PHE	Α	623	6.317	36.936	1.576		56.24	0
			ALA			5.348	35.433	2.958	1.00	58.43	N
ATOM	747	N					35.291	2.191		58.80	Ç
ATOM	748	CA	ALA			4.128				59.29	С
ATOM	749	CB	ALA	Α	624	4.317	34.258	1.117			č
ATOM	750	С	ALA	A	624	3.004	34.880	3.128		59.45	
	751	ō	ALA			3.240	34.339	4.218	1.00	60.17	0
ATOM			PRO			1.758	35.134	2.720	1.00	58.79	N
ATOM	752	N					35.831	1.504	1 00	58.23	С
MOTA	753	CD	PRO			1.316				58.30	С
ATOM	754	CA	PRO	A	625	0.610	34.777	3.552			č
MOTA	755	СВ	PRO	A	625	-0.574	35.130	2.655		58.44	
	756	CG	PRO			-0.067	36.300	1.902	1.00	58.45	С
ATOM						0.602	33.312	3.990	1.00	57.40	С
ATOM	757	C	PRO				32.962	4.973		56.41	0
ATOM	758	0	PRO			-0.045				57.37	N
ATOM	759	N	ASP	Α	626	1.342	32.471	3.267			Č
ATOM	760	CA	ASP	A	626	1.404	31.036	3.563		57.73	
	761	CB	ASP			0.836	30.235	2.379	1.00	58.49	С
ATOM						1.750	30.260	1.147	1.00	59.16	С
ATOM	762	CG	ASP					0.839		59.10	0
ATOM	763		ASP			2.320	31.328				ō
ATOM	764	OD2	ASP	Α	626	1.888	29.209	0.477		59.56	č
ATOM	765	С	ASP	Α	626	2.820	30.554	3.873		57.51	
		ŏ	ASP			3.178	29.408	3.586	1.00	56.84	0
ATOM	766					3.622	31.436	4,455	1.00	57.58	Ŋ
ATOM	767	N	LEU					4.793		58.80	С
ATOM	768	CA	LEU			4.994	31.094			57.66	С
ATOM	7,69	CB	LEU	Α	627	5.868	31.002	3.537			č
ATOM	770	CG	LEU	А	627	7.313	30.521	3.726		55.56	
	771		LEU			7.293	29.144	4.404	1.00	53.88	С
ATOM			LEU			8.040	30.466	2.365	1.00	55.45	С
MOTA	772						32.120	5.723		59.11	С
MOTA	773	С	LEU			5.598				59.97	Ō
ATOM	774	0	LEU			6.565	32.792	5.366			N
ATOM	775	N	ILE.	A	628	5.021	32.228	6.913		59.55	
ATOM	776	CA	ILE			5.493	33.150	7.933		60.24	c
			ILE			4.299	33.706	8.749	1.00	59.38	С
ATOM	777	CB					34.959	9.522		59.44	С
ATOM	778	CG2	ILE	A	020	4.716				59.16	Č
ATOM	779	CG1	ILE	Α	628	3.146	34.065	7.805			č
ATOM	780	CD1	ILE	A	628	1.926	34.642	8.530		58.40	
ATOM	781	c	ILE			6.480	32.456	8.894		61.87	C
			ILE			6.488	31.224	9.012	1.00	61.25	0
	782	0					33.256	9.557		64.50	N
ATOM	783	N	ILE			7.322				66.21	Ċ
ATOM	784	CA	ILE	Α	629	8.294	32.752	10.529			č
ATOM '	785	CB	ILE	A	629	9.670	32.594	9.906		64.27	
	786	CES	ILE	A	629	10.575	31.858	10.871		62.84	C
ATOM				7	629	9.538	31.824	8,593	1.00	64.22	, С
MOTA	187	.,CG1	775	-	620			7.949		65.97	· c
ATOM	788	CD1	ILE	A	029	10.834	31.451			69.29	č
ATOM	789	С	ILE	A	629	8.403	33.633	11.783			
ATOM	790	ŏ			629	8.636	34.840	11.716		69.32	0
					630	8.233	32.982	12.929		73.87	N
MOTA	791	N						14.262		77.51	C
ATOM	792	CA	ASN			8.243	33.594			79.26	č
ATOM	793	CB			630	7.174	32.890	15.084			c
ATOM	794	CG	ASN	A	630	6.857	31.513	14.530		81.12	
		001	ASN	Δ	630	6.259	31.392	13.464		80.98	0
MOTA	795	דתט	NOW.	7	630	7.291	30.467	15.235	1.00	81.86	N
MOTA	796		ASN	A	630			14.972		79.33	C
ATOM	797	С	asn	A	630	9.593	33.477				ő
	798	Ō	ASN	A	630	10.639	33.424	14.320	1.00	79.88	U
ATOM											

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		9.563 33.460 16.309 1.00 81	.77 N
MOTA	799 N GLU A 631	10 777 33 282 17.120 1.00 83	.18 ^C
MOTA	800 CA GLU A 631 801 CB GLU A 631	10 788 34 200 18.352 1.00 83	.72 C
ATOM	(21	11.599 35.490 18.170 1.00 85	
ATOM	802 CG GLU A 631 803 CD GLU A 631	11.944 36.198 19.486 1.00 87	
ATOM ATOM	804 OE1 GLU A 631	12.730 37.130 00 555 1 00 85	
ATOM	805 OE2 GLU A 631	11.432 33.000	1.80 C
ATOM	806 C GLU A 631	10.731 31.000 10 472 1 00 84	.30 ⁰
ATOM	807 O GLU A 631	0 064 31 045 16.927 1.00 84	1.11 N
ATOM	808 N GLN A 632 809 CA GLN A 632	9.634 29.642 17.250 1.00 84	1.32 C
MOTA	809 CA GLN A 632 810 CB GLN A 632	8.210 29.490 17.781 1.00 84	
ATOM ATOM	811 CG GLN A 632	7.702 30.704 10.075 1 00 86	, _~
ATOM	812 CD GLN A 632	0.403 30.500 00 446 1 00 86	6.57 ^O
ATOM	813 OE1 GLN A 632	9 247 30 001 20.342 1.00 80	5.71 N
ATOM	814 NE2 GLN A 632	0 917 28 717 16.048 1.00 8	
ATOM	815 C GLN A 632 816 O GLN A 632	9.306 27.590 16.023 1.00 8	
ATOM	816 O GLN A 632 817 N ARG A 633	10.534 29.206 15.046 1.00 89	,,,,,
ATOM ATOM	818 CA ARG A 633	10.000 201100 10 007 1 00 0	4.69 C
MOTA	819 CB ARG A 633	9.076 20.000 12.035 1 00 8	2.95 ^C
ATOM	820 CG ARG A 633	0.641 27 522 10.555 1.00 8	1.41
ATOM	821 CD ARG A 633	9 575 28 267 9.891 1.00 8	0.77 N 0.47 C
MOTA	822 NE ARG A 633 823 CZ ARG A 633	7.357 27.779 9.674 1.00 8	0.37
MOTA	823 CZ ARG A 633 824 NH1 ARG A 633	7.066 26.552 10.078 1.00 8	0.55
MOTA MOTA	825 NH2 ARG A 633	0.437 20.000 1 00 0	4.65 C
ATOM	826 C ARG A 633	12.131 20.000 10.00 1 00 0	3.28
ATOM	827 O ARG A 633	12 661 29 980 13.790 1.00 8	5.33 N
ATOM	828 N MET A 634 829 CA MET A 634	12 050 30 526 13 401 1.00 8	5.98
ATOM		14.044 32.004 13.794 1.00 8	
ATOM	830 CB MET A 634 831 CG MET A 634	13.353 32.919 12.792 1.00 8	10.57
MOTA MOTA	832 SD MET A 634	13.320 34.030 40 400 1 00 0	15.32 ^C
ATOM	833 CE MET A 634	11.032 30.000 14 117 1 00 F	15.46 C
ATOM	834 C MET A 634	16 234 29 945 13.982 1.00 8	
ATOM	835 O MET A 634 836 N THR A 635	14.553 28.721 14.877 1.00	
ATOM	836 N THR A 635 837 CA THR A 635	15.402 27.797 15.614 1.00 8	,0.55
ATOM ATOM	938 CB THR A 635	14.040 27.102 17.735 1 00 5	,,,,,,
ATOM	839 OG1 THR A 635	13.330	37.34 ^C
MOTA	840 CG2 THR A 635	15 750 26 710 14.608 1.00	85.94 C
ATOM	841 C THR A 635 842 O THR A 635	16 991 26 230 14.574 1.00	86.17 O
MOTA		14.766 26.336 13.792 1.00	
ATOM	843 N LEU A 636	14.956 25.334 12.749 1.00	03.12
ATOM ATOM	845 CB LEU A 636	13.751 23.300 12.55 1 00	82.76 C
MOTA	846 CG LEU A 636	14 219 23 015 10.853 1.00	83.55 C
ATOM	847 CD1 LEU A 636 848 CD2 LEU A 636	12 695 24 634 9,698 1.00	
ATOM	1 636	16.199 25.776 11.977 1.00	03.00
ATOM ATOM	849 C LEU A 636	16.183 26.818 11.325 1.00	84.76 N
ATOM	851 N PRO A 637	17.200 24.505 10.400 1.00	85.03 C
ATOM	852 CD PRO A 637	19 577 25 209 11.397 1.00	84.54 C
ATOM	853 CA PRO A 637 854 CB PRO A 637	18 838 23.863 10.744 1.00	84.45 C
ATOM		18.530 22.959 11.901 1.00	04.54
ATOM ATOM	855 CG PRO A 637 856 C PRO A 637	18.901 26.396 10.487 1.00	84.99 C 85.73 O
ATOM	857 O PRO A 637	10.122 20.020 30.751 1.00	B4.24 N
ATOM	858 N ASP A 638	20.793 28 004 10.076 1.00	83.39
MOTA	859 CA ASP A 638 860 CB ASP A 638	21 553 27 436 8.877 1.00	84.05 C 85.20 C
MOTA		22.994 27.081 9.232 1.00	00.20
MOTA	861 CG ASP A 638 862 OD1 ASP A 638	23.640 27.897 9.934 1.00	85.09 0 86.85 <u>0</u>
MOTA MOTA	863 OD2 ASP A 638	23.403 20.010 0 677 1 00	82.26 C
ATOM	864 C ASP A 638	20.107 23.330	82.18 O
MOTA	865 O ASP A 638	10 882 29.550 9.910 1.00	80.76 N
MOTA	866 N MET A 639 867 CA MET A 639	18.329 30.838 9.532 1.00	80.47 C
ATOM		17 175 30.672 8.544 L.00	00
ATOM	868 CB MET A 639	17.539 29.984 7.220 1.00	85.51 86.82 S
MOTA MOTA	870 SD MET A 639	18.709 30.773 6 267 1 00	86.94 C
MOTA	871 CE MET A 639	20.135 25.570 10.706 1.00	78.93 C
MOTA	872 C MET A 639	16 902 31 392 11.288 1.00	78.01
ATOM	873 O MET A 639 874 N TYR A 640	18.611 32.702 11.049 1.00	77.21 N 75.61 C
MOTA	3 640	18.259 33.634 12.117 1.00	,0,0
MOTA	876 CB TYR A 640	18.241 32.987 13.500 1.00	75.02 C
ATOM ATOM	977 CG TYR A 640	17.920 33.553 14.766 1.00	74.86 C
ATOM	979 CD1 TYR A 640	10.023 34.302 15 713 1 00	73.98 C
ATOM	879 CE1 TYR A 640	16.352 35.496 15.713 1.00	

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ATOM	880	CD2 TYR A 640	18.938	34.503	15.403	1.00 73.13	C	
ATOM	881	CE2 TYR A 640	18.676	35.488	16.342	1.00 73.23		
ATOM	882	CZ TYR A 640	17.389	35.984	16.491	1.00 73.89	С 0	
ATOM	883	OH TYR A 640	17.154	36.994	17.394	1.00 75.08	C	
MOTA	884	C TYR A 640	19.318	34.701	12.113	1.00 75.43		
	885	O TYR A 640	19.046	35.884	12.321	1.00 75.02	0	
MOTA	886	N ASP A 641	20.544	34.257	11.880	1.00 75.46	N	
MOTA	_	CA ASP A 641	21.689	35.146	11.830	1.00 75.75	Č	
ATOM	887		22.955	34.323	11.610	1.00 78.65	Ç	
ATOM	888		22.875	33.478	10.369	1.00 81.73	C	
MOTA	889		21.798	32.867	10.152	1.00 82.69	0	
MOTA	890	OD1 ASP A 641	23.886	33.431	9.626	1.00 82.69	0	
ATOM	891	OD2 ASP A 641	21.468	36.120	10.686	1.00 73.93	С	
ATOM	892	C ASP A 641		37.136	10.569	1.00 73.31	0	
MOTA	893	O ASP A 641	22.159 20.493	35.787	9.844	1.00 73.01	N	
ATOM	894	N GLN A 642	20.493	36.620	8.704	1.00 72.29	С	
ATOM	895	CA GLN A 642		35.819	7.397	1.00 73.06	С	
MOTA	896	CB GLN A 642	20.221	34.549	7.347	1.00 73.57	С	
ATOM	897	CG GLN A 642	19.405	33.346	6.960	1.00 74.07	С	
MOTA	898	CD GLN A 642	20.250	32.591	7.813	1.00 76.16	0	
ATOM	899	OE1 GLN A 642	20.693		5.665	1.00 73.49	N	
MOTA	900	NE2 GLN A 642	20.481	33.170	8.908	1.00 69.89	С	
ATOM	901	C GLN A 642	18.723	37.166	8.538	1.00 70.05	0	
ATOM	902	O GLN A 642	18.427	38.302		1.00 68.20	N	
ATOM	903	N CYS A 643	17.859	36.355	9.510	1.00 66.80	Ċ	
MOTA	904	CA CYS A 643	16.493	36.782	9.798	1.00 64.52	Ċ	•
ATOM	905	CB CYS A 643	15.691	35.642	10.400	1.00 62.12	s	
ATOM	906	SG CYS A 643	15.620	34.242	9.324		Č	
ATOM	907	C CYS A 643	16.538	37.914	10.B00	1.00 66.28	ő	
ATOM	908	O CYS A 643	15.609	38.716	10.888	1.00 64.96	N	
ATOM	909	N LYS A 644	17.627	37.957	11.561	1.00 66.18	č	
ATOM	910	CA LYS A 644	17.812	38.988	12.565	1.00 66.37	č	
ATOM	911	CB LYS A 644	18.959	38.608	13.509	1.00 68.66	Č	
ATOM	912	CG LYS A 644	19.070	39.500	14.740	1.00 72.51	Č	
ATOM	913	CD LYS A 644	20.089	38.962	15.740	1.00 75.50	Č	
ATOM	914	CE LYS A 644	20.137	39.791	17.025	1.00 77.12	N	
MOTA	915	NZ LYS A 644	21.143	39.250	17.988	1.00 78.05	C	
MOTA	916	C LYS A 644	18.092	40.318	11.866	1.00 64.80	o	
ATOM	917	O LYS A 644	17.910	41.391	12.446	1.00 65.34		
ATOM	918	N HIS A 645	18.510	40.230	10.606	1.00 63.00	N	
ATOM	919	CA HIS A 645	18.802	41.405	9.801	1.00 59.77	C	
	920	CB HIS A 645	19.743	41.037	8.659	1.00 59.92	C	
MOTA	921	CG HIS A 645	21.140	40.753	9.109	1.00 59.70	C	
MOTA	922	CD2 HIS A 645	21.852	39.602	9.132	1.00 58.68	C	
ATOM		ND1 HIS A 645	21.960	41.728	9.638	1.00 58.42	Ŋ	
MOTA	923	CE1 HIS A 645	23.117	41.185	9.966	1.00 59.06	C	
ATOM	924	NE2 HIS A 645	23.080	39.898	9.671	1.00 59.02	N	
ATOM	925		17.498	41.929	9.260	1.00 58.18	C	
ATOM	926		17.203	43.114	9.396	1.00 57.96	0	
ATOM	927		16.713	41.037	8.659	1.00 57.42	N	
ATOM	928	N MET A 646	15.404	41.402	8.113	1.00 56.10	С	
ATOM	929	CA MET A 646 CB MET A 646	14.743	40.195	7.425	1.00 56.15	С	
MOTA	930		15.430	39.717	6.142	1.00 57.62	С	
ATOM	931	CG MET A 646	15.933	37.957	6.139	1.00 59.85	S	
MOTA	932	SD MET A 646	14.564	37.207	5.554	1.00 58.77	С	
ATOM	933	CE MET A 646 C MET A 646	14.505	41.896	9.240	1.00 54.90	С	
MOTA	934		13.758	42.854	9.068	1.00 54.02	0	
ATOM	935	O MET A 646	14.588		10.392	1.00 54.19	N	
ATOM	936	N LEU A 647	13.784	41.589	11.557	1.00 51.72	С	
MOTA	937	CA LEU A 647	14.165	40.699	12.731	1.00 50.92	С	
ATOM	938	CB LEU A 647		39.576	13.077	1.00 51.35	С	
MOTA	939	CG LEU A 647	13.183	39.278	11.918	1.00 49.77	С	
ATOM	940	CD1 LEU A 647	12.193	38.359	13.488	1.00 49.26	С	
MOTA	941	CD2 LEU A 647	14.018	43.041	11.893	1.00 51.19	С	
ATOM	942	C LEU A 647	14.015		12.291	1.00 51.34	0	
ATOM	943		13.101	43.763	11.724	1.00 49.86	N	
ATOM	944	N TYR A 648	15.255	43.472	12.008	1.00 47.81	С	
ATOM	945	CA TYR A 648	15.596	44.855	11.531	1.00 44.66	C	
ATOM	946	CB TYR A 648	17.015	45.144	11.497	1.00 42.49	ċ ·	
MOTA	947	CG TYR A 648 '	17.354	46.618	12.671	1.00 40.92	č	
MOTA	948	CD1 TYR A 648	17.469	47.365		1.00 40.43	~	g No.
ATOM.	949	CE1 TYR A 648	17.808	48.720	12-,633	1.00 40.43	C ;;	, a pu
ATOM	950	CD2 TYR A 648	17.578	47.264	10.285		c ,,	
ATOM	951	CE2 TYR A 648	17.913	48.608	10.238	1.00 41.65	č	•
ATOM	952		18.031	49.328	11.407	1.00 41.29	Ö	
ATOM	953		18.393	50.648	11.322	1.00 42.63	Č	
MOTA	954		14.620	45.808	11.316		Ö	
MOTA	955		14.071	46.718	11.940	1.00 46.64		
MOTA	956		14.413	45.578	10.023	1.00 46.91	N	
ATOM	957		13.535	46.411	9.216		C	
	958		13.394	45.861	7.801		C	
MOTA			12.596	46.840	6.924	1.00 47.29	С	
NO CM	050	CG1 VAL A 649	12.330	10.010			~	
MOTA MOTA	959 960		14.772	45.585			С	

ATOM	961		VAL A		12.155	46.528	9.810	1.00 48.22 1.00 48.77	
ATOM	962		VAL A		11.720 11.468	47.630 45.397	10.119 9.964	1.00 49.23	
MOTA	963 964	n Ca	SER A		10.114	45.383	10.523	1.00 50.65	
ATOM ATOM	965	CB	SER A		9.585	43.941	10.637	1.00 51.24	
ATOM	966	OG	SER A		10.393	43.161 46.056	11.500 11.890	1.00 53.81 1.00 50.66	
MOTA	967	C	SER A		10.014 9.070	46.803	12.156	1.00 49.51	
ATOM ATOM	968 969	N O	SER A		10.991	45.787	12.753	1.00 50.55	
ATOM	970	CA	SER A	651	11.017	46.361	14.095 14.899	1.00 51.09 1.00 51.47	
ATOM	971	CB	SER A		12.170 13.335	45.770 45.701	14.098	1.00 55.27	
MOTA MOTA	972 973	OG C	SER F		11.163	47.873	14.018	1.00 51.11	
ATOM	974	ŏ	SER A	A 651	10.522	48.610	14.763	1.00 52.23 1.00 51.58	
ATOM	975	N	GLU F		12.004 12.206	48.341 49.771	13.111 12.954	1.00 52.96	
ATOM ATOM	976 977	CA CB	GLU F		13.461	50.009	12.101	1.00 53.40	
ATOM	978	CG	GLU A	A 652	14.158	51.358	12.295	1.00 52.80 1.00 53.12	
ATOM	979	CD	GLU A		14.660 14.836	51.550 50.524	13.709 14.405	1.00 52.90	
ATOM	980	OE1	GLU A		14.884	52.713	14.116	1.00 51.83	
ATOM ATOM	981 982	C	GLU 2		10.964	50.330	12.254	1.00 54.01	
ATOM	983	0	GLU A	A 652	10.541	51.470 49.503	12.483 11.408	1.00 54.79 1.00 55.58	
ATOM	984	n Ca		A 653 A 653	10.366 9.184	49.905	10.661	1.00 57.21	
ATOM ATOM	985 986	CB		A 653	8.998	48.956	9.470	1.00 53.73	
ATOM	987	CG	LEU Z	A 653	8.452	49.539	8.174 7.831	1.00 51.55 1.00 51.81	
ATOM	988		LEU A		9.167 8.616	50.851 48.497	7.062	1.00 49.87	
ATOM ATOM	989 990	CD2		A 653	7.981	49.877	11.608	1.00 58.50	
ATOM	991	ŏ	LEU 2	A 653	6.856	50.233	11.243 12.847	1.00 60.00 1.00 58.33	
MOTA	992	N		A 654	8.256 7.244	49.485 49.384	13.890	1.00 57.70	
atom atom	993 994	CA CB		A 654 A 654	7.328	48.002	14.553	1.00 57.91	
ATOM	995	CG	HIS 2	A 654	6.462	47.854	15.761	1.00 58.06 1.00 58.87	
ATOM	996		HIS ?		6.758 5.099	47.914 47.664	17.083 15.686	1.00 58.93	
ATOM	997 998		HIS :		4.593	47.617	16.908	1.00 59.08	
ATOM ATOM	999		HIS .		5.579	47.766	17.769	1.00 59.13 1.00 56.80	
MOTA	1000	C		A 654	7.509 6.583	50.466 51.120	14.919 15.401	1.00 55.50	
	1001 1002	N O		A 654 A 655	8.784	50.635	15.256	1.00 56.90	
	1002	CA		A 655	9.204	51.650	16.210	1.00 58.18	
MOTA	1004	CB		A 655	10.726 11.267	51.625 52.736	16.385 17.274	1.00 58.72 1.00 57.26	
	1005 1006	CG		A 655 A 655	12.768	52.670	17.303	1.00 57.06	
	1007	NE		A 655	13.384	53.342	16.164	1.00 58.45 1.00 60.38	
	1008	CZ	ARG		13.349 12.712	54.656 55.464	15.942 16.780	1.00 59.14	
MOTA	1009 1010	NH1	ARG ARG	A 655 A 655	13.992	55.173	14.899	1.00 58.16	
ATOM ATOM	1011	C		A 655	8.809	53.043	15.720	1.00 58.84	
ATOM	1012	0		A 655	8.391	53.896 53.268	16.506 14.417	1.00 59.48 1.00 58.42	
ATOM	1013 1014	N CA		A 656 A 656	8.946 8.636	54.566	13.830	1.00 58.31	
ATOM ATOM	1015	CB		A 656	9.574	54.828	12.643	1.00 59.21	
ATOM	1016	CG		A 656	10.243	56.207 56.697	12.513 13.857	1.00 58.41 1.00 57.20	
MOTA	1017 1018			A 656 A 656	10.743 11.401	56.108	11.549	1.00 58.13	
MOTA MOTA	1019	C		A 656	7.185	54.639	13.382	1.00 58.15	
ATOM	1020	0		A 656	6.683	55.714 53.483	13.056 13.382	1.00 56.91 1.00 58.20	
ATOM	1021 1022	N CA		A 657 A 657	6.525 5.125	53.366	12.985	1.00 58.07	
MOTA MOTA	1023	CB		A 657	4.212	53.969	14.049	1.00 59.63	
ATOM	1024	CG		A 657	4.148	53.161 53.310	15.325 16.047	1.00 63.04 1.00 66.34	
MOTA	1025	CD		A 657 A 657	2.815 2.389	54.424	16.371	1.00 68.74	
ATOM ATOM	1026 1027			A 657	2.151	52.184	16.307	1.00 66.39	
ATOM	1028	,C	GLN	A 657	4.845	54.045	11.664	1.00 56.24 1.00 56.39	•
MOTA	1029	0		A 657	3.973 5.588	54.906 53.653	11.587 10.632	1.00 53.531	
ATOM ATOM	1030 1031	N CA		A 658 A 658	5.440	54.222	9.294	1.00 49.80	
ATOM	1032	CB	VAL	A 658	6.506	53.641	8.343	1.00 49.06 1.00 49.12	
MOTA	1033			A 658	6.385 7.871	54.251 53.882	6.942 8.932	1.00 49.12	
ATOM	1034 1035	CG2 C		A 658 A 658	4.066	53.923	8.736	1.00 47.47	
ATOM ATOM	1035	ŏ		A 658	3.486	52.874	9.018	1.00 48.37	
ATOM	1037	N		A 659	3.536		7.957 7.339	1.00 44.90 1.00 43.85	
ATOM	1038 1039	CA CB		A 659 A 659	2.233 1.498			1.00 41.14	
MOTA MOTA	1040	OG		A 659	2.068	56.781	6.199	1.00 38.28	
ATOM	1041	C		A 659	2.371	54.020	5.946	1.00 44.11	

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					070	e 415	1.00 45.44	0
ATOM	1042	0	SER A 659	3.474	53.878	5.415		N
ATOM	1043	N	TYR A 660	1.245	53.636	5.354	1.00 43.08	č
	1044	CA	TYR A 660	1.259	52.996	4.043	1.00 42.59	
ATOM			TYR A 660	-0.132	52.480	3.694	1.00 40.73	С
ATOM	1045	CB		-0.179	51.708	2.397	1.00 39.79	C
ATOM	1046	CG	TYR A 660			2.236	1.00 39.97	C
MOTA	1047	CD1	TYR A 660		50.522			С
ATOM	1048	CEl	TYR A 660	0.519	49.819	1.029	1.00 39.11	č
ATOM	1049		TYR A 660	-0.940	52.164	1.321	1.00 38.28	
			TYR A 660		51.470	0.117	1.00 36.89	С
MOTA	1050				50.301	-0.020	1.00 37.99	С
ATOM	1051	CZ	TYR A 660			_	1.00 40.38	0
ATOM	1052	OH	TYR A 660		49.584	-1.183		Ċ
ATOM	1053	С	TYR A 660	1.698	54.002	2.998	1.00 43.53	
	1054	ō	TYR A 660		53.682	2.023	1.00 40.82	0
ATOM			GLU A 66		55.235	3.216	1.00 45.17	N
MOTA	1055	N			56.316	2.319	1.00 47.43	С
MOTA	1056	CA	GLU A 661			2.746	1.00 51.28	С
MOTA	1057	CB	GLU A 663		57.571		1.00 54.68	С
MOTA	1058	CG	GLU A 663	0.492	58.562	1.631		č
ATOM	1059	CD	GLU A 663	-1.004	58.560	1.301	1.00 56.32	
	1060	OE1	GLU A 66:		58.704	2.231	1.00 58.17	Ō
ATOM					58.416	0.123	1.00 57.76	0
MOTA	1061		GLU A 66:		56.575	2.382	1.00 46.75	С
MOTA	1062	С	GLU A 66				1.00 46.32	0
ATOM	1063	0	GLU A 66		56.651	1.355		N
MOTA	1064	N	GLU A 662	3.652	56.723	3.598	1.00 45.63	
	1065	CA	GLU A 662		56.988	3.771	1.00 45.45	c
ATOM			GLU A 66		57.222	5,256	1.00 44.64	С
MOTA	1066	CB			58.363	5.915	1.00 44.59	С
ATOM	1067	CG	GLU A 66			7.419	1.00 46.79	С
ATOM	1068	CD	GLU A 663		58.467		1.00 46.01	0
ATOM	1069	OE1	GLU A 66	5.028	57.414	8.079		ŏ
ATOM	1070		GLU A 66		59.609	7.952	1.00 47.97	
		Č	GLU A 66		55.805	3.239	1.00 44.16	С
ATOM	1071				55.962	2.542	1.00 45.27	0
MOTA	1072	0	GLU A 66		54.614	3.561	1.00 43.82	N
ATOM	1073	N	TYR A 66			3.128	1.00 41.69	С
MOTA	1074	CA	TYR A 66		53.394			Ċ
MOTA	1075	CB	TYR A 66	5.221	52.199	3.614	1.00 39.69	č
MOTA	1076	CG	TYR A 66	5.533	50.923	2.882	1.00 40.59	
			TYR A 66		50.297	3.010	1.00 42.11	C
MOTA	1077				49.131	2.280	1.00 43.17	С
ATOM	1078		TYR A 66		50.361	2.012	1.00 41.89	C
ATOM	1079		TYR A 66				1.00 43.67	С
ATOM	1080	CE2	TYR A 66		49.206	1.280		Č
ATOM	1081	CZ	TYR A 66	6.130	48.593	1.410	1.00 44.34	
	1082	OH	TYR A 66		47.455	0.661	1.00 46.31	0
ATOM	_		TYR A 66		53.365	1.615	1.00 41.38	С
ATOM	1083	C			53.094	1.104	1.00 44.00	0
ATOM	1084	О	TYR A 66			0.899	1.00 40.00	N
ATOM	1085	N	LEU A 66		53.660			С
ATOM	1086	CA	LEU A 66	5.094	53.634	-0.562	1.00 37.88	č
ATOM	1087	CB	LEU A 66	3.685	53.905	-1.103	1.00 37.12	
		CG	LEU A 66		52.724	-1.027	1.00 37.53	С
ATOM	1088				53.176	-1.611	1.00 37.45	С
ATOM	1089		LEU A 66		51.495	-1.786	1.00 35.07	С
ATOM	1090	CD2	LEU A 66			-1.175	1.00 37.10	С
MOTA	1091	С	LEU A 66		54.615		1.00 35.66	0
MOTA	1092	0	LEU A 66	6.612	54.402	-2.285		N
MOTA	1093	N	CYS A 66	6.393	55.681	-0.442	1.00 35.22	
	1094	CA	CYS A 66		56.679	-0.915	1.00 37.04	C
ATOM			CYS A 66	·	58.047	-0.299	1.00 37.41	С
MOTA	1095	СВ			58.846	-1.006	1.00 40.10	S
MOTA	1096	SG	CYS A 66			-0.589	1.00 38.08	С
MOTA	1097	С	CYS A 66		56.275		1.00 37.65	0
ATOM	1098	0	CYS A 66	5 9.692	56.491	-1.387		N
ATOM	1099	N	MET A 66	6 8.948	55.693	0.592	1.00 37.80	
	1100	CA	MET A 66		55.206	1.037	1.00 37.89	С
ATOM		CB	MET A 66		54.654	2.463	1.00 39.50	С
ATOM	1101				55.691	3.517	1.00 41.45	С
MOTA	1102	CG	MET A 66	·	54.903	5.105	1.00 44.06	S
MOTA	1103	ŞD	MET A 66				1.00 44.38	C
ATOM	1104	CE	MET A 66	6 11.484	54.731	5.457		č
ATOM	1105	С	MET A 66	6 10.738	54.087	0.116	1.00 38.44	
	1106	ō	MET A 66		53.997	-0.171	1.00 39.89	0
MOTA			LYS A 66			-0.350	1.00 36.26	N
MOTA	1107	N			52.127	-1.211	1.00 35.46	С
MOTA	1108	CA	LYS A 66				1.00 35.39	С
ATOM	1109	CB	LYS A 66		51.116	-1.322		č
ATOM	1110	CG	LYS A 66	7 9.457	49.758	-1.876	1.00 33.89	Č
ATOM	1111	CD	LYS A 66		48.703	-1.545	1.00,34.45	
			LYS A 66		49.059	-2.109	1.00 35.03	; C
MOTA	1112	CE			49.199	-3.603	1.00 35.14	N
ATOM	1113	NZ	LYS A 66			-2.582	1.00 34.54	С
MOTA	1114	С	LYS A 66					ő
ATOM	1115	0	LYS A 66	7 11.343		-3.293	1.00 34.12	
MOTA	1116	N	THR A 66		53.807	-2.951	1.00 34.65	N
			THR A 60			-4.266	1.00 36.42	C
ATOM	1117	CA				-4.743	1.00 34.99	С
MOTA	1118	CB	THR A 60			-5.157	1.00 32.53	0
MOTA	1119	OG1					1.00 32.92	C
MOTA	1120	CG2	THRA 6	8 9.857		-5.924		č
ATOM	1121	С	THR A 6	8 11.772	54.977	-4.205	1.00 37.15	
	1122	ŏ	THR A 6			-5.081	1.00 39.05	0
MOTA	1162	•	***** W 0,					

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	1123 N	T.ET	J A 66	9	12.012		-3.169	1.00			N C
ATOM	1123 N 1124 CA		JA 66		13.289		-2.983	1.00			Č
ATOM ATOM	1125 CB		J A 66		13.257	•	-1.704	1.00			č
ATOM	1126 CG		J A 66		12.440	58.556 59.237	-1.774 -0.426	1.00			C
MOTA			JA 66		12.520 12.966	59.498	-2.864	1.00	29.80		C
ATOM	1128 CD		JA 66		14.420	55.401	-2.927	1.00	42.20		C
ATOM	1129 C 1130 O		JA 66 JA 66		15.590	55.725	-3.136	1.00			o N
ATOM	1130 O 1131 N		U A 67		14.069	54.157	-2.636	1.00			Č
MOTA MOTA	1132 CA		U A 67		15.069	53.111	-2.596	1.00			č
ATOM	1133 CE	LE	U A 67		14.539	51.876 51.950	-1.885 -0.367	1.00			C
MOTA	1134 CG		U A 67		14.451 13.806	50.676	0.164	1.00	44.23		C
ATOM			U A 67 U A 67		15.843	52.114	0.211	1.00			C
ATOM			U A 67		15.473	52,738	-4.010	1.00			С 0
ATOM ATOM	1137 C 1138 O		U A 6		16.655	52.578	-4.296	1.00			N
ATOM	1139 N		U A 6		14.492	52.585	-4.893 -6.289	1.00			c
ATOM	1140 CZ		U A 6		14.754	52.241 52.173	-7.055	1.00	53.98		С
ATOM	1141 CI		U A 6		13.428 13.394	51.837	-8.559	1.00	55.20		C
ATOM	1142 C		U A 6'		13.602	53.103	-9.350	1.00	55.57		C C
MOTA			U A 6		14.442	50.772	-8.933		55.85		C
MOTA MOTA	1144 C		U A 6		15.670	53.291	-6.917		55.81 54.57		ŏ
ATOM	1146 0		U A 6		16.531	52.986	-7.741 -6.502		58.80		N
ATOM	1147 N		U A 6		15.482	54.534 55.641	-7.022		62.80		С
ATOM	1148 C		U A 6		16.268 15.334	56.799	-7.371	1.00	61.85		C
MOTA	1149 C		UA6		14.134	56.447	-8.259		60.89		C C
MOTA	1150 C		UA 6		13.084	57.539	-8.128		61.15		C
ATOM ATOM	1151 C	D2 LE	U A 6	72	14.582	56.266	-9.706		59.60 65.84		č
ATOM	1153 C	LE	EU A 6	72	17.268	56.092	-5.970 -5.798		66.23		0
ATOM	1154 0		EU A 6		17.505	57.281 55.145	-5.260		69.11		N
ATOM	1155 N		ERA 6 ERA 6		17.860 18.800	55.511	-4.221	1.00	71.93		C
ATOM			ERA 6		18.906	54.382	-3.210		71.47		C O
ATOM ATOM			ERA 6		18.853	54.877	-1.885		71.88 75.36		č
ATOM	1159 C	; SI	ERA 6	73	20.170	55.845	-4.782 -5.349		76.01		Ō
ATOM	1160 C		ER A 6		20.369	56.932 54.911	-4.651	1.00	78.75		N
ATOM	1161 N		ERA 6		21.108 22.460	55.149	-5.134	1.00	81.66		C
ATOM	-		ERA 6 ERA 6		23.442	54.046	-4.651		82.06		C O
ATOM			ER A 6		23.730	54.142	-3.253		80.07		Ç
ATOM ATOM	1165	_	ER A 6		22.578	55.331	-6.651		83.67 83.37		ō
ATOM	1166) S	ER A 6		21.590	55.440 55.388	-7.385 -7.086		85.82		N
ATOM	1167 N		AL A		23.832 24.209	55.616	-8.471	1.00	87.39		C
MOTA	_		ALA 6 ALA 6		23.966	57.099	-8.851		86.61		C
ATOM			AL A		24.995	57.586	-9.881		86.91		Č
ATOM ATOM			AL A		22.560	57.257	-9.382		86.19 89.13		č
ATOM		C V	AL A	575	25.698	55.337 55.602	-8.513 -7.534		88.61		0
ATOM			AL A		26.406 26.191	54.792	-9.638	1.00	90.50		N
ATOM			ROA (25.444	54.551	-10.891		91.19		C
MOTA			RO A		27.612	54.473	-9.809		91.78		c
ATOM ATOM			RO A		27.767		-11.326		91.81 91.79		č
ATOM		CG P	RO A		26.454		-11.753 -9.161		91.76		С
ATOM			RO A		28.495 28.940	55.530 55.365		1.00	92.62		0
MOTA		0 P	RO A	010 677	28.743	56.615	-9.890		91.42		N
ATOM			YS A		29.550	57.725		1.00	90.59		C
ATOM ATOM			YS A		30.803	57.213		1.00	89.47 88.66		č
ATOM		CG I	YS A	677	31.020	57.863		1.00	88.80		С
ATOM			YS A		29.720 29.029				88.91		С
ATOM			YS A		27.550			1.00	88.10		N
ATOM			LYS A		29.942	58.657	-10.527		90.29		C O
ATOM ATOM			YS A		30.165	59.849	-10.322		90.63		Ŋ
ATOM			ASP A		30.009		-11.736		99.62 88.89		Ĉ
ATOM	1191	CA A	ASP A	678	30.357		-12.920 -13.959		89.19		C
ATOM			ASP A		31.063 32.011		-14.874		88.51	A	C
ATOM	1193		ASP A		32.011	59.707	-15.579	1.0	0 88.03		0
MOTA	1194 1195		ASP A		33.217	58.449	-14.889	1.0	0 87.03		C
atom atom	1196		ASP A		29.048	59.442	-13.497		0 87.61 0 87.58		ŏ
MOTA	1197	0 2	ASP A	678	28.974		7 -14.666 2 -12 648		0 86.16		N
ATOM	1198		GLY A		28.025		9 -12.648 7 -13.071		0 84.02		С
ATOM	1199		GLY A		26.724 26.069		-14.103	3 1.0	O B2.62		c
MOTA	1200	-	GLY A		26.669	58.729	-15.130	1.0	0 83.22		о И
ATOM ATOM	1201 1202		LEU A		24.83	58.63	7 -13.828	1.0	0 80.01		C
ATOM	1203		LEU A		24.10	5 57.788	3 -14.76	1.0	0 76.98		-

MOTA	1204	СВ	LEU A	680	22.678	57.548 -14.239	1.00 76.06	
ATOM	1205	CG	LEU A		22.495	56.910 -12.855	1.00 74.98	
MOTA	1206	CD1	LEU A	680	21.079	57.146 -12.341	1.00 73.06	
ATOM	1207	CD2	LEU A	680	22.803	55.424 -12.946	1.00 73.24 1.00 75.06	
MOTA	1208	С	LEU A		24.048	58.523 -16.107	1.00 74.11	
MOTA	1209	0	LEU A		24.229	59.744 -16.167	1.00 72.73	
ATOM	1210	N	LYS A	681	23.815	57.779 -17.184	1.00 70.21	
ATOM	1211	CA	LYS A		23.715	58.390 -18.505 57.347 -19.557	1.00 69.31	
MOTA	1212	CB	LYS A		23.334	56.705 -20.250	1.00 68.29	
MOTA	1213	CG	LYS A		24.518	55.843 -19.300	1.00 67.55	
MOTA	1214	CD	LYS A		25.341	55.160 -20.036	1.00 65.59	
ATOM	1215	CE	LYS A		26.494 26.039	54.391 -21.236	1.00 61.64	
MOTA	1216	NZ	LYS A		22.675	59.506 -18.506	1.00 69.59	
MOTA	1217	C	LYS A		22.813	60.493 -19.223	1.00 70.85	
MOTA	1218	0	SER A		21.639	59.346 -17.688	1.00 68.16	
ATOM	1219	N CA	SER A		20.561	60.325 -17.594	1.00 65.66	
ATOM	1220 1221	CB	SER A		19.230	59.641 -17.871	1.00 65.37	
ATOM ATOM	1222	OG	SER A		19.333	58.829 -19.020	1.00 64.33	
MOTA	1223	C	SER A		20.514	60.931 -16.203	1.00 64.67	
MOTA	1224	ō	SER F		19.456	60.939 -15.587	1.00 63.62	
ATOM	1225	N	GLN F		21.644	61.440 -15.714	1.00 64.38	
ATOM	1226	CA	GLN F	4 683	21.700	62.018 -14.370	1.00 65.18 1.00 64.99	
ATOM	1227	CB	GLN F	A 683	23.121	62.502 -14.061	1.00 65.80	
ATOM	1228	CG	GLN A	4 683	23.280	63.042 -12.656	1.00 66.15	
ATOM	1229	CD	GLN A		23.132	61.958 -11.625	1.00 66.81	
ATOM	1230	OE1	GLN A		22.902	62.226 -10.448	1.00 67.81	
ATOM	1231	NE2			23.272	60.713 -12.062	1.00 65.30	
ATOM	1232	Ç	GLN 7		20.697	63.163 -14.203 63.432 -13.104	1.00 64.40	
MOTA	1233	0	GLN A		20.204	63.824 -15.313	1.00 65.93	
MOTA	1234	N	GLU 1		20.391	64.932 -15.314	1.00 66.98	
MOTA	1235	CA		A 684	19.441	65.635 -16.674	1.00 68.74	
MOTA	1236	CB		A 684	19.455 20.576	65.189 -17.591	1.00 70.85	
MOTA	1237	CG		A 684	20.376	63.745 -18.010	1.00 72.48	
MOTA	1238	CD		A 684	21.393	63.199 -18.589	1.00 72.54	
ATOM	1239		GLU A		19.351	63.161 -17.763	1.00 74.49	
ATOM	1240		GLU	A 684	18.028	64.425 -15.017	1.00 66.33	
ATOM	1241	C		A 684	17.307	65.001 -14.201	1.00 65.98	
ATOM	1242	0		A 685	17.641	63.350 -15.695	1.00 64.94	
ATOM	1243	N		A 685	16.330	62.735 -15.513	1.00 64.26	
MOTA	1244 1245	CA CB		A 685	16.139	61.652 -16.583	1.00 64.30	
ATOM	1245	CG		A 685	14.937	61.786 -17.514	1.00 64.98	
ATOM	1247		LEU		15.334	61.277 -18.894	1.00 65.94	
ATOM ATOM	1248		LEU		13.728	61.041 -16.941	1.00 65.67	
ATOM	1249	c		A 685	16.186	62.126 -14.103	1.00 63.99	
ATOM	1250	Ō		A 685	15.129	62.236 -13.466		
ATOM	1251	N	PHE	A 686	17.265	61.506 -13.623	1.00 62.00 1.00 58.97	
MOTA	1252	CA	PHE	A 686	17.288	60.862 -12.313		
ATOM	1253	CB		A 686	18.649	60.196 -12.059 59.226 -10.909		
ATOM	1254	CG		A 686	18.642	58.010 -11.018		
ATOM	1255		L PHE		17.973	59.536 -9.712		
MOTA	1256		2 PHE		19.268 17.928	57.118 -9.942		
ATOM	1257		PHE		19.227	58.648 -8.630		
MOTA	1258		2 PHE	A 686	18.554	57.437 -8.747		
MOTA	1259	CZ		A 686	16.983	61.846 -11.189		
ATOM	1260	C	PUP	A 686	15.989	61.694 -10.487	1.00 58.68	
ATOM	1261 1262	N O		A 687	17.827	62.858 -11.028	1.00 59.10	
ATOM	1263	CA		A 687	17.628	63.859 -9.986		
ATOM ATOM	1264	CB		A 687	18.630	65.004 -10.177		
MOTA	1265	CG		A 687	20.073	64.562 -9.947		
ATOM	1266	OD	1 ASP		20.276	63.400 -9.533		
ATOM	1267	OD	2 ASP	A 687	21.004	65.372 -10.163		
ATOM	1268	Ċ		A 687	16.189	64.401 -9.936	1.00 59.77	
ATOM	1269	0	ASP	A 687	15.621	64.581 -8.854		
ATOM	1270	N		A 688	15.599	64.656 -11.103	1.00 60.95	
ATOM	1271	CA	. GTA	A 688	14.234	65.169 -11.163		
MOTA	1272		GLΠ	A 688	13.785	65.377 -12.611		
ATOM.	1273	CG	GLU	A 688	14.520	66.495 -13.343 67.797 -12.569		
MOTA	1274	CD	GLU	A 688	14.536			
MOTA	1275	OE	1 GLU	A 688	13.564	68.034 -11.805 68.573 -12.741		
MOTA	1276		2 GLU	A 688	15.512	64.215 -10.478		
ATOM	1277			A 688	13.281			
MOTA	1278			A 688	12.595			
MOTA	1279		_	A 689	13.238 12.358			
MOTA	1280			A 689	12.587	44 00/		
MOTA	1281			A 689	12.567		1.00 55.69	
ATOM	1282	CG	Z ILE	A 689	12.574	60.727 -12.58	5 1.00 54.77	
ATOM	1283	CG	T TPE	A 689	13.085			
MOTA	1284	CD	TIPE	A 689	15.000			

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ATOM	1285	С	ILE A	A 68	9 12.6	516	61.826	-B.895	1.00	56.24	С
ATOM	1286	ŏ	ILE 2				62.015	-8.068		57.18	0
ATOM	1287	N	ARG Z	A 69			61.503	-8.552		55.77	N C
ATOM	1288	CA	ARG A				61.327	-7.163 -7.088		55.98 55.19	c
ATOM	1289	CB	ARG I				61.092 60.765	-5.700		53.78	Č
MOTA	1290	CG	ARG A		- III -		60.497	-5.714		54.71	С
MOTA MOTA	1291 1292	CD NE	ARG A				60.199	-4.383	1.00	56.73	N
ATOM	1293	CZ	ARG I				61.046	-3.364		59.10	C
ATOM	1294		ARG 2		0 17.6		62.232	-3.539		60.67	N
ATOM	1295	NH2			0 18.7		60.723	-2.179		59.68	N C
ATOM	1296	С	ARG A				62.520	-6.291 -5.078		55.55 55.49	ŏ
ATOM	1297	0	ARG				62.401 63.674	-6.920		56.47	N
ATOM	1298 1299	N CA	MET A				64.853	-6.179		56.58	С
MOTA MOTA	1300	CB	MET A				66.097	-6.837	1.00	58.08	C
ATOM	1301	CG	MET 2				67.243	-5.868		59.90	C
MOTA	1302	SD	MET A				66.810	-4.521		64.41	S C
ATOM	1303	CE	MET 2				67.847	-5.016		62.85 55.63	C
MOTA	1304	C	MET A				64.981 65.563	-6.057 -5.089		55.51	ŏ
ATOM	1305	0	MET .				64.433	-7.027		53.64	N
ATOM	1306 1307	N CA	THR I				64.486	-7.014		50.89	С
ATOM ATOM	1307	CB	THR				64.075	-8.335		48.15	C
ATOM	1309	OG1			2 9.0		62.659	-8.437		48.29	0
ATOM	1310	CG2	THR 2				64.698	-9.476		49.27 50.65	c
ATOM	1311	С	THR			032	63.534 63.717	-5.952 -5.418		51.86	ŏ
ATOM	1312	0	THR		7		62.519	-5.635		49.19	N
MOTA	1313 1314	N CA	TYR I		-	451	61.563	-4.604		48.00	С
ATOM ATOM	1315	CB	TYR			975	60.195	-4.984		47.56	C
ATOM	1316	CG	TYR			154	59.561	-6.059		46.93	C C
ATOM	1317	CD1	TYR :	A 69		934	58.977	-5.754		46.58	C
ATOM	1318	CE1			-		58.356	~6.716 -7.370		47.57 45.04	č
MOTA	1319		TYR .			605 868	59.519 58.902	-8.346		48.18	č
ATOM	1320 1321	CE2	TYR .			656	58.319	-8.010		48.56	С
ATOM ATOM	1322	OH	TYR .			908	57.692	-8.971		50.12	0
ATOM	1323	C	TYR .		13 9.9	946	61.963	-3.195		47.46	C
ATOM	1324	0	TYR .			499	61.408	-2.192		45.56 47.93	N
ATOM	1325	N	ILE .				62.918 63.388	-3.119 -1.827		48.41	Ċ
ATOM	1326	CA	ILE .				64.221	-1.996		49.22	C
ATOM ATOM	1327 1328	CB	ILE .				65.039	-0.755		46.70	С
ATOM	1329		ILE .				63.295	-2.292		51.18	C
ATOM	1330		ILE .		4 15.3		64.028	-2.654		52.54	C
ATOM	1331	С	ILE .				64.279	-1.243		48.94 46.19	Ö
ATOM	1332	0	ILE .			903 724	64.184 65.139	-0.058 -2.109		50.82	N
ATOM	1333	n Ca	LYS .		_	650	66.060	-1.740		51.70	С
ATOM ATOM	1334 1335	CB	LYS		-	447	67.135	-2.823		51.36	С
ATOM	1336	CG	LYS			699	67.970	-3.076		49.93	C
ATOM	1337	CD	LYS .		-	392	69.275	-3.780		49.97	C
ATOM	1338	CE	LYS			907	69.046	-5.198 -6.125		51.92 53.71	N
ATOM	1339	NZ	LYS			983 377	68.588 65.263	-1.549		51.57	C
MOTA	1340 1341	C O	LYS LYS		-	482	65.663	-0.803		52.87	0
ATOM ATOM	1342	N	GLU			309	64.122	-2.225	1.00	51.46	N
ATOM	1343	CA	GLU		6.	164	63.236	-2.104		49.69	C
ATOM	1344	CB	GLO			256	62.127	-3.150		51.52 53.14	Ċ
MOTA	1345	CG	GLU			067	61.212 61.973	-3.173 -3.209		54.98	č
ATOM	1346	CD	GLU			781 561	62.754	-4.179		55.80	0
MOTA	1347 1348	OE2	GLU GLU			008	61.773	-2.247		53.05	0
ATOM ATOM	1349	C	GLU			184	62.646	-0.691		48.68	C
ATOM	1350	ŏ	GLU			192	62.701	0.040		48.67	0
ATOM	1351	N	LEU		_	318	62.082	-0.300		48.19	С И
ATOM	1352	CA	LEU			440	61.513	1.029		48.23 48.87	Ċ
ATOM	1353	CB	LEU			864 226	61.017 60.599	1.259 2.692		50.48	С
MOTA	1354	CG ĆD1	LEU			369	59.395	3.153		50.25	C
ATOM ATOM	1355 1356		LEU				60.266	2.736	1.00	48.69	C
ATOM	1357	C	LEU		7.	096	62.585	2.049		49.19	C
ATOM	1358	ō	LEU	A 6	6.	512	62.294	3.091		50.68	и О
ATOM	1359	N	GLY			465	63.826	1.744		49.36 48.45	C
ATOM	1360	CA	GLY		_	175 687	64.927 65.056	2.642 2.868		48.50	č
ATOM	1361	C	GLY GLY		_	240	65.185	4.009		47.91	0
MOTA	1362 1363	O N	LYS			924	65.017	1.774	1.00	48.62	N
ATOM ATOM	1364	CA	LYS		9 3.	461	65.119	1.818		48.03	C
ATOM	1365	СВ	LYS			88 6	65.087	0.397	1.00	47.98	U

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ATOM	1366	CG	LYS 2	A (599	3.326	66.265	-0.455		47.61		C
ATOM	1367	CD	LYS 2		599	2.929	66.091	-1.910		48.03 49.11		Č
MOTA	1368		LYS A			3.513 3.239	67.211 67.074	-2.761 -4.218		47.82		N
MOTA	1369		LYS I			2.899	63.970	2.628	1.00	47.65		С
ATOM ATOM	1370 1371		LYS 2			2.001	64.154	3.450		47.13		0
MOTA	1372		ALA			3,440	62.780	2.394		48.78		И С
ATOM	1373		ALA			2.993	61.594	3.110 2.64B		50.51 49.37		Č
ATOM	1374		ALA			3.795 3.143	60.382 61.816	4.621		50.96		C
MOTA	1375 1376	C O	ALA A			2.297	61.383	5.403		49.68		0
ATOM ATOM	1377	N	ILE			4.214	62.508	5.011		52.22		N
ATOM	1378	CA	ILE :	A.	701	4.478	62.812	6.413		54.71		C C
ATOM	1379	СВ	ILE .			5.918	63.268 63.704	6.614 8.064		53.74 53.26		č
MOTA	1380		ILE			6.127 6.860	62.127	6.225		53.43		С
ATOM ATOM	1381 1382		ILE :			8.307	62.516	6.156		51.85		C
ATOM	1383	c	ILE .			3.532	63.888	6.956		58.00		C O
ATOM	1384	0	ILE .			3.000	63.760	B.060		58.18 59.77		N
ATOM	1385	N	VAL .			3.318	64.950 65.993	6.190 6.637		62.49		Ĉ
MOTA	1386	CA CB	VAL .			2.409 2.303	67.117	5.596		62.95		С
ATOM ATOM	1387 1388		VAL			1.185	68.080	5.977		62.68		C
ATOM	1389		VAL			3.640	67.838	5.490		62.55		C
ATOM	1390	С	VAL			1.031	65.367	6.845		64.26 65.10		ŏ
MOTA	1391	0	VAL			0.415	65.483	7.911 5.816		65.02		N
MOTA	1392	N	LYS			0.566 -0.732	64.676 64.023	5.846		66.60		С
MOTA	1393 1394	CA CB	LYS			-0.866	63.140	4.591	1.00	66.24		С
ATOM ATOM	1395	CG	LYS			-2.235	62.514	4.392		65.19		C
ATOM	1396	CD	LYS			-2.404	61.925	2.998		64.37		C
MOTA	1397	CE	LYS			-3.769	61.267	2.833		65.69 65.23		N
ATOM	1398	NZ	LYS			-3.943 -1.029	60.617 63.213	1.497 7.120		67.04		Ċ
ATOM	1399	C	LYS LYS			-2.179	63.063	7:496		67.09		0
ATOM ATOM	1400 1401	O N	ARG			0.008	62.715	7.790		68.03		N
ATOM	1402	CA	ARG			-0.151	61.914	9.002		68.16		C
ATOM	1403	CB	ARG			0.775	60.702	8.911		67.95 69.89		Č
ATOM	1404	CG	ARG			0.950	59.888 58.654	10.175 9.823		71.05		Č
ATOM	1405	CD	ARG ARG			1.756 2.022	57.767	10.949		73.08		N
ATOM	1406 1407	NE CZ	ARG			2.870	58.029	11.942		74.45		C
ATOM ATOM	1408		ARG			3.548	59.172	11.968		75.00		N
ATOM	1409		ARG	A	704	3.061	57.126	12.900		73.60 68.04		N C
MOTA	1410	С	ARG			0.108	62.697	10.282 11.060		67.92		ŏ
ATOM	1411	0	ARG			-0.852 1.239	62.832 63.168	10.486		66.54		0
MOTA	1412 1413	CB	ARG SER			2.242	72.955	10.265		54.81		C
ATOM ATOM	1414	OG	SER			1.167	73.197	11.160		53.87		O C
ATOM	1415	С	SER			2.969	71.211	11.905		57.67 57.88		Ö
ATOM	1416	0	SER			2.016	71.166 70.564	12.693 9.773		54.28	_	N
MOTA	1417	N	SER			1.758 2.732	71.508	10.411		55.76	•	С
ATOM	1418 1419	CA N	SER			4.240	71.025	12.280	1.00	57.69		N
ATOM ATOM	1420	CA	SER			4.636	70.745	13.665		56.36		C
ATOM	1421	CB	SER			3.710	69.687	14.260		56.43		Ö
ATOM	1422	OG	SER			3.423	68.701	13.284 13.712		56.34 57.90		Č
MOTA	1423	C	SER			6.094 7.030	70.256 71.043	13.526		57.65		0
MOTA	1424 1425	O N	GLN			6.271	68.955	13.964	1.00	57.90		N
MOTA MOTA	1426	CA	GLN			7.587	68.289	14.017		56.52		C
ATOM	1427	CB	GLN			7.670	67.501	15.326		56.97		C
ATOM	1428	CG	GLN			7.116	68.329	16.512 17.846		58.60 58.92		-C
MOTA	1429	CD	GLN			7.171 6.757	67.602 66.449	17.941		60.13		Ó
MOTA	1430	OET	GLN GLN	A	710	7.680	68.273	18.882	1.00	58.49		N
MOTA	1431 1432	C	GLN	A	710	7.704	67.391	12.755		56.55		C
MOTA MOTA	1433	ŏ	GLN			8.012	66.188	12.793		55.45		O N
MOTA	1434	N	ASN			7.486	68.025	11.610		55.17 56.02		C
ATOM	1435		ASN			7.531	67.298	10.362 9.279	1.00	55.32		··č
MOTA	1436		ASN			6.725 5.251	68.035 68.271	9.658	1.00	55.98		Č
ATOM	1437	CG OD1	ASN ASN	A	711	4.485	68.788	8.843	1.00	55.62		0
MOTA	1438 1439		ASN			4.856	67.895	10.878	1.00	57.73		N
MOTA MOTA	1440	C	ASN	Α	711	8.932	67.009	9.838	1.00	56.20		C
ATOM	1441	ŏ	ASN	A	711	9.129	66.038	9.106	1.00	52.71 60.06		о И
ATOM	1442	N			712	9.915	67.823	10.201 9.691		60.60		Č
MOTA	1443	CA			712	11.244 12.075	67.546 68.827	9.529	1.00	62.52		Ċ
MOTA	1444	CB CG			712 712	11.356	70.065	9.008	1.00	62.95		. C
MOTA MOTA	1445 1446	CD2	TRP	A	712	11.331	70.574		1.00	63.40		С
WI OUT	2420											

ATOM	1447	CE2	TRP A 71	.2	10.677	71.825	7.687	1.00 6			C C
ATOM	1448		TRP A 71		11.807	70.098	6.421	1.00 6			č
ATOM	1449	CD1	TRP A 71	.2	10.720	71.006 72.060	9.771 8.988	1.00 6			N
ATOM	1450		TRP A 71		10.319 10.485	72.612	6.551	1.00 €			C
MOTA	1451 1452		TRP A 71		11.614	70.896	5.274	1.00	6.25		C C
ATOM ATOM	1453		TRP A 71		10.956	72.134	5.355	1.00 6			c
ATOM	1454	С	TRP A 71	12	12.016	66.547	10.540 10.127	1.00 6			ō
MOTA	1455	0	TRP A 71		13.075 11.522	66.104 66.204	11.727	1.00 5			N
MOTA	1456	N	GLN A 71 GLN A 71		12.228	65.215	12.543	1.00 5	57.65		C
ATOM ATOM	1457 1458	CA CB	GLN A 7		11.768	65.253	14.004	1.00			c c
ATOM	1459	CG	GLN A 7		12.558	64.312	14.916	1.00 5			č
ATOM	1460	CD	GLN A 7		11.956	64.181	16.301 16.469	1.00			Õ
MOTA	1461	OE1			10.867 12.659	63.632 64.690	17.300	1.00			N
ATOM	1462	NE2	GLN A 7		11.922	63.834	11.974	1.00 !	56.81		C
ATOM ATOM	1463 1464	0	GLN A 7		12.800	62.979	11.873	1.00			Ŋ
ATOM	1465	N	ARG A 7		10.651	63.630	11.630 11.056	1.00 5			ĉ
ATOM	1466	CA	ARG A 7		10.177 8.644	62.373 62.373	10.937	1.00			С
MOTA	1467	CB	ARG A 7		8.080	61.063	10.409	1.00	55.69		C
ATOM ATOM	1468 1469	CG	ARG A 7		6.592	60.911	10.698	1.00			C N
ATOM	1470	NE	ARG A 7		6.116	59.568	10.366	1.00			Č
ATOM	1471	CZ	ARG A 7		6.494	58.464	10.999 12.011	1.00			N
ATOM	1472		ARG A 7		7.348 6.037	58.534 57.287	10.601	1.00			N
MOTA	1473	C	ARG A 7		10.801	62.214	9.674	1.00			C
ATOM ATOM	1474 1475	Ö	ARG A 7		11.170	61.112	9.262	1.00			N O
ATOM	1476	N	PHE A 7	15	10.921	63.329	8.961 7.631	1.00 1.00			Ċ
ATOM	1477	CA	PHE A 7		11.519 11.390	63.318 64.691	6.978	1.00			С
ATOM	1478	CB	PHE A 7		11.769	64.707	5.528	1.00	55.03		C
ATOM ATOM	1479 1480	CG CD1	PHE A 7		10.845	64.357	4.548	1.00			C
ATOM	1481		PHE A 7		13.055	65.074	5.138		55.63 56.00		č
ATOM	1482		PHE A 7		11.197	64.376 65.098	3.198 3.793		55.68		С
MOTA	1483		PHE A 7		13.422 12.492	64.750	2.821	1.00	56.77		C
ATOM	1484 1485	CZ C	PHE A 7		12.991	62.969	7.820		53.98		C
ATOM ATOM	1486	ŏ	PHE A 7		13.648	62.446	6.919		54.78 53.49	•	N
ATOM.	1487	N	TYR A 7		13.498	63.257 62.965	9.012 9.339		52.82		С
MOTA	1488	CA	TYR A 7		14.877 15.394	63.982	10.363	1.00	54.19		С
MOTA	1489 1490	CB CG	TYR A 7		16.811	63.747	10.828		55.32		C
ATOM ATOM	1491		TYR A		17.067	63.128	12.052		55.83 58.40		C
ATOM	1492	CE1	TYR A	716	18.368	62.896	12.485 10.038		55.59		С
MOTA	1493	CD2	TYR A		17.892 19.198	64.129 63.903	10.451		58.23		С
MOTA	1494 1495	CE2	TYR A TYR A	716	19.431	63.281	11.678		60.41		C
ATOM ATOM	1496	OH	TYR A		20.728	63.036	12.095		62.23		O C
ATOM	1497	C	TYR A		15.012	61.536	9.871 9.685	1.00	52.31 53.87		ŏ
ATOM	1498	0	TYR A		16.039 13.973	60.892 61.028	10.517	1.00	50.59		N
MOTA	1499 1500	N CA	GLN A		14.011	59.678	11.040		49.14		C
ATOM ATOM	1501	CB	GLN A	717	12.913	59.502	12.076		48.02 47.75		c
ATOM	1502	CG	GLN A	717	13.187	60.266	13.350 14.374	1.00	47.28		č
ATOM	1503	CD	GLN A	717	12.083 10.922	60.098 60.408	14.108	1.00	44.02		0
ATOM	1504	OE:	GLN A	717	12.441	59.606	15.558	1.00	47.28		N
ATOM ATOM	1505 1506		GLN A	717	13.820	58.662	9.929	1.00	49.07		C
ATOM	1507	ŏ	GLN A	717	14.381	57.559	9.961	1.00	50.47 47.86		N
ATOM	1508	N	LEU A	718	13.029	59.038 58.133	8.936 7.840	1.00	46.90		С
ATOM	1509		LEU A	718 718	12.749 11.485	58.586	7.082	1.00	44.55		С
ATOM	1510	CB CG	LEU A	718 718	10.155	58.700	7.861	1.00	42.65		c
ATOM ATOM	1511 1512	CD:	LEU A	718	9.009	58.733	6.873	1.00	41.64		C
ATOM	1513	CD	2 LEU A	718	9.953	57.546	8.828 6.901		37.93 46.55		č
ATOM	1514		LEU A	718	13.937	58.005 56.903	6.458	1.00	45.46		0
ATOM	1515		LEU A THR A	719	14.260 14.584	59.137	6.626	1.00	47.26	٠.	N
ATOM	1516 1517		THR A	719	15.757	59.195	5.764	.™`1.00	46.43		C
ATOM ATOM	1518	CB	THR A	719	16.224	60.617	5.598		46.78 49.22		0
ATOM	1519	OG	1 THR A	719	15.141	61.401 60.670	5.087 4.630		46.92		С
MOTA			2 THR A THR A	719 719	17.376 16.878			1.00	46.61		С
ATOM	1521 1522		THE A	719	17.680		5.678	1.00	47.44		0
ATOM ATOM	1523		LYS A	720	16.916	58.380	7.708		45.91 46.06		N C
ATOM	1524		LYS A	720	17.920				47.69		č
MOTA	1525	СВ	LYS A	720	17.869			1.00	49.40		С
ATOM	1526			720	19.064 19.007				53.02		С
ATOM	1527	CD	TI 2 T								

								1 00 52 41	С
7 COM	1528	CE	LYS 2	A 720	20.272	57.773	12.951	1.00 53.41	N
MOTA				A 720	20.138	58.236	14.374	1.00 55.37	
ATOM	1529				17.692	56.132	8.244	1.00 45.84	С
ATOM	1530		LYS 2				7.917	1.00 45.91	0
ATOM	1531	0	LYS A	A 720	18.623	55.401		1.00 44.81	N
ATOM	1532	N	LEU A	A 721	16.461	55.666	8.439		Ĉ
				A 721	16.149	54.249	8.249	1.00 43.44	
MOTA	1533				14.651	54.005	8.469	1.00 44.36	С
ATOM	1534			A 721			7.978	1.00 43.99	С
MOTA	1535			A 721	14.068	52.669		1.00 42.83	С
ATOM	1536	CD1	LEU 2	A 721	14.803	51.534	8.662		č
		CD2	T.Eff	A 721	12.565	52.597	8.263	1.00 45.48	
MOTA	1537		100	701	16.538	53.816	6.831	1.00 42.20	С
MOTA	1538			A 721			6.617	1.00 41.31	0
MOTA	1539	0	LEU 2	A 721	17.096	52.739		1.00 42.11	N
ATOM	1540		LEU :	A 722	16.230	54.661	5.858		
				A 722	16.563	54.351	4.482	1.00 43.13	C
MOTA	1541				16.072	55.457	3.548	1.00 42.12	С
ATOM	1542			A 722		55.422	3.186	1.00 42.58	С
ATOM	1543			A 722	14.582			1.00 43.09	С
ATOM	1544	CD1	LEU :	A 722	14.212	56.630	2.337		С
ATOM	1545			A 722	14.271	54.146	2.418	1.00 43.11	č
				A 722	18.066	54.172	4.349	1.00 44.38	
MOTA	1546	C			18.536	53.318	3.588	1.00 44.59	0
ATOM	1547	0		A 722		54.980	5.090	1.00 45.37	N
MOTA	1548	N		A 723	18.823			1.00 46.24	С
MOTA	1549	CA	ASP	A 723	20.277	54.878	5.050		č
	1550	СВ		A 723	20.947	56.097	5.693	1.00 47.55	
ATOM					20.793	57.342	4.857	1.00 50.95	Ç
ATOM	1551	CG		A 723	20.921	57.239	3.618	1.00 53.46	0
ATOM	1552	OD1	ASP	A 723			5.432	1.00 53.76	0
ATOM	1553	OD2	ASP	A 723	20.545	58.426			С
ATOM	1554	c	ASP	A 723	20.764	53.606	5.722	1.00 44.58	ŏ
				A 723	21.742	53.015	5.278	1.00 45.82	
MOTA	1555	0			20.088	53.175	6.783	1.00 43.57	N
ATOM	1556	N		A 724			7.465	1.00 44.04	С
ATOM	1557	CA		A 724	20.496	51.952		1.00 42.14	С
ATOM	1558	CB	SER	A 724	19.844	51.848	8.843		ŏ
	1559	OG		A 724	18.583	51.201	8.784	1.00 38.58	
ATOM				A 724	20.116	50.731	6.635	1.00 46.12	C
MOTA	1560	C			20.442	49.600	6.992	1.00 47.63	0
ATOM	1561	0		A 724			5.530	1.00 47.03	N
ATOM	1562	N	MET	A 725	19.418	50.962		1.00 48.24	С
ATOM	1563	CA	MET	A 725	18.998	49.869	4.669		č
	1564	CB		A 725	17.916	50.354	3.688	1.00 49.32	
MOTA				A 725	16.511	50.560	4.305	1.00 48.80	C
ATOM	1565	CG				49.039	5.080	1.00 46.86	S
MOTA	1566	SD		A 725	15.865			1.00 45.55	С
MOTA	1567	CE	\mathbf{MET}	A 725	15.626	48.008	3.622		Ċ
	1568	C		A 725	20.193	49.328	3.898	1.00 48.98	
ATOM				A 725	20.292	48.124	3.639	1.00 48.67	0
MOTA	1569	0			21.101	50.228	3.526	1.00 51.41	N
ATOM	1570	N		A 726			2.766	1.00 52.22	C
ATOM	1571	CA	HIS	A 726	22.299	49.854		1.00 52.32	С
ATOM	1572	CB	HIS	A 726	23.171	51.099	2.507		č
		CG		A 726	24.288	50.860	1.538	1.00 55.97	
ATOM	1573				25.639	50.851	1.709	1.00 57.37	С
ATOM	1574			A 726		50.514	0.219	1.00 55.61	N
MOTA	1575			A 726	24.079			1.00 55.50	С
ATOM	1576	CE1	HIS	A 726	25.231		-0.375	1.00 56.75	N
ATOM	1577	NE2	HIS	A 726	26.200	50.495	0.510		Ċ
		C		A 726	23.071	48.811	3.562	1.00 52.63	
ATOM	1578			A 726	23.630		3.018	1.00 51.56	0
MOTA	1579	0					4.871	1.00 52.29	Ŋ
ATOM	1580	N		A 727	23.072		5.730	1.00 51.66	С
ATOM	1581	ÇA		A 727	23.773			1.00 56.48	С
ATOM	1582	CB	GLÜ	A 727	23.803	48.595	7.174		č
		CG		A 727	24.495	49.953	7.374	1.00 61.39	
ATOM	1583	CD		A 727	24.495		8.834	1.00 64.73	C
ATOM	1584	CD	GHO	2 727			9.721	1.00 65.56	O
MOTA	1585	OE1	GLŪ	A 727	24.950		9.088	1.00 65.33	0
ATOM	1586	OE2	GLU	A 727	24.045			1.00 49.32	С
MOTA	1587	С	GLU	A 727	23.134		5.714	1.00 43.32	ŏ
	1588	ŏ	GT.IT	A 727	23.846	45.708	5.697	1.00 51.08	
ATOM				A 728	21.801	46.662	5.716	1.00 45.57	N
ATOM	1589	N			21.061	·	5.743	1.00 41.94	С
ATOM	1590	CA	VAL	A 728				1.00 41.73	С
ATOM	1591	CB	VAL	A 728	19.532		5.977	1.00 39.22	Ċ
MOTA	1592	CG1	VAL	A 728	18.806	44.289		1.00 35.22	
		002	VAT.	A 728	19.280	46.344	7.331	1.00 40.47	C
ATOM	1593		173 T	n 728	21.223		4.465	1.00 39.82	C
MOTA	1594	C	ىلدە	A 728					0
ATOM	1595	0		A 728	21.405	, 73.314			N
MOTA	1596	N		A 729	21.171		3.343		Ċ
	1597	CA		A 729	21.269	44.677			
ATOM			377 T	A 729	21.145		0.897	1.00 41.81	. с
MOTA +	1598	CB	A WT	A 700					С
MOTA	1599	CG1	. VAL	A 729	21.266				С
ATOM	1600		VAL	A 729	19.819				č
	1601		VAL	A 729	22.536	43.893			
MOTA			VAT	A 729			1.205	1.00 42.16	0
MOTA	1602				23.632				N
MOTA	1603	N	GT0	A 730					С
ATOM	1604	CA	GLU	A 730	24.912				Č
MOTA	1605		GLU	A 730	25.942				č
			CT.D	A 730	27.162		2.359		
MOTA	1606		3110	A 730	26.98			1.00 66.80	С
MOTA	1607	CD	GLU	A /30	20.90.				0
MOTA	1608	OE:	L GLU	A 730	27.92	9 46.807	1.00-		

		25.887 46.905 1.918 1.00 70.77	0
MOTA	1609 OE2 GLU A 730	23.667 40.300 2.891 1.00 46.35	С 0
MOTA	1610 C GLU A 730	25,100 41.304 2.224 1.00 45.35	Ŋ
MOTA	1011	24.337 42.207 4.142 1.00 44.57	Ĉ
ATOM	1612 N ASN A 731 1613 CA ASN A 731	24.1// 40.504 6 204 1 00 46.72	С
ATOM ATOM	1614 CB ASN A 731	23.390 41.00 1 00 50 57	C
ATOM	1615 CG ASN A 731	24.301 41.031 7 640 1 00 50 63	0
ATOM	1616 OD1 ASN A 731	24 170 43 100 7.351 1.00 53.89	N C
ATOM	1617 ND2 ASN A 731 1618 C ASN A 731	23,276 39.982 3.975 1.00 42.55	Ö
MOTA	207 2 721	23.641 38.839 3.662 1.00 42.11	N
MOTA	1619 O ASN A 731 1620 N LEU A 732	22.101 30.505 2.005 1.00 37.79	С
ATOM ATOM	1621 CA LEU A 732	21.130 33.00	С
MOTA	1622 CB LEU A 732	19.838 40.986 3.983 1.00 38.87	C
ATOM	1623 CG LEU A 732	17 000 41 662 3.665 1.00 39.55	C C
MOTA	1624 CD1 LEU A 732 1625 CD2 LEU A 732	19.026 39.863 4.992 1.00 37.82	č
ATOM	1625 CD2 LEU A 732 1626 C LEU A 732	21.101	Ō
ATOM ATOM	1627 O LEU A 732		N
ATOM	1628 N LEU A 733	22.455 39.908 -0.410 1.00 39.47	C
MOTA	1629 CA LEU A 733	23.731 41 147 -1.007 1.00 39.24	C C
ATOM	1630 CB LEU A 733 1631 CG LEU A 733	22.836 42.072 -1.855 1.00 40.47	Ċ
MOTA	1002 4 777 7 727	23.654 43.267 -2.344 1.00 39.64	č
ATOM	1632 CD1 LEU A 733 1633 CD2 LEU A 733	22.202 3 2 000 1 00 41 64	С
ATOM ATOM	1634 C LEU A 733	24.103 30.53 1 00 41 45	0
ATOM	1635 O LEU A 733	24.295 38 882 0.893 1.00 44.37	N
MOTA	1636 N ASN A 734 1637 CA ASN A 734	25.784 37.897 1.222 1.00 46.22	C
ATOM	774	26 407 38 263 2.547 1.00 40.49	č
ATOM	1638 CB ASN A 734 1639 CG ASN A 734	27.817 37.841 2.614 1.00 51.17	0
ATOM ATOM	1640 OD1 ASN A 734	28.033 35.55 3 515 1 00 49.90	N
ATOM	1641 ND2 ASN A 734	26.131 36.483 1.296 1.00 47.74	. С
MOTA	1642 C ASN A 734	25 604 35 580 0.574 1.00 48.65	и
ATOM	1643 O ASN A 734 1644 N TYR A 735	24.195 36.282 2.168 1.00 48.96	Č
MOTA	1644 N TYR A 735 1645 CA TYR A 735	23.558 34.972 2.292 1.00 50.51 23.518 34.972 3.418 1.00 54.99	С
ATOM ATOM	1646 CB TYR A 735	22.310 31.01 1 00 50 39	C
ATOM	1647 CG TYR A 735	23.116 35.146 5.426 1.00 60.93	C
ATOM	1648 CD1 TYR A 735	23.682 36.562 6.695 1.00 63.01	C C
MOTA	1649 CE1 TYR A 735 1650 CD2 TYR A 735	23.688 34.067 5.466 1.00 59.76	č
MOTA MOTA	1650 CD2 TYR A 735 1651 CE2 TYR A 735	24.252 34.221 6.734 1.00 62.36 24.252 34.221 7.342 1.00 63.73	C
ATOM	1652 CZ TYR A 735	24.243 33.43	0
ATOM	1653 OH TYR A 735	22 878 34 548 1.001 1.00 49.06	C
MOTA	1654 C TYR A 735 1655 O TYR A 735	22.756 33.356 0.714 1.00 49.78	O N
ATOM	726	22.443 35.528 0.219 1.00 47.55	Ċ
ATOM ATOM	1657 CA CYS A 736	21.737 33.557 1 00 47.94	С
ATOM	1658 CB CYS A 736	21.312 3.045 1.00 46.76	S
ATOM	1659 SG CYS A 736	22 662 34 482 -1.974 1.00 47.82	C
MOTA	1660 C CYS A 736	22.348 33.356 -2.351 1.00 46.37	Ŋ
ATOM	1661 O CYS A 736 1662 N PHE A 737	23.797 35.076 -2.327 1.00 50.40	Ċ
ATOM ATOM	1663 CA PHE A 737	24.732 34.433 3 966 1 00 54.20	С
ATOM	1664 CB PHE A 737	25.556 36.351 -4 906 1.00 54.06	C
MOTA	1665 CG PHE A 737	23.808 37.241 -4.419 1.00 53.01	C
ATOM	1666 CD1 PHE A 737 1667 CD2 PHE A 737	24.939 36.261 -6.282 1.00 55.32	č
MOTA	1667 CD2 PHE A 737 1668 CE1 PHE A 737	23.057 38.024 -5.277 1.00 52.42 23.057 38.024 -5.277 1.00 55.36	Ċ
ATOM ATOM	1669 CE2 PHE A 737	24.163 37.040 6 647 1 00 54 18	С
MOTA	1670 CZ PHE A 737	23.245 37.331 0.602 1 00 57 70	C
ATOM	1671 C PHE A 737	26 922 33 266 -3.006 1.00 58.32	0
ATOM		25.155 32.688 -1.605 1.00 61.37	C N
MOTA	CTN A 738	25.930 31.653 -0.943 1.00 62.30	č
ATOM ATOM	1675 CB GLN A 738	20.202 32.005 0 461 1 00 67.35	С
ATOM	1676 CG GLN A 738	2/.2// 33.22 1 00 60 30	C
ATOM	1677 CD GLN A 738	29.814 34.3601.923 1.00 70.13	0
ATOM	1678 OE1 GLN A 738	27.226 33.082 2.906 1.00 65.52	N C
'ATOM	1690 C GLN A 738	25.227 30.292 -0.990 1.00 63.01	ő
ATOM ATOM	1681 O GLN A 738	24.070 30.148 -0.590 1.00 63.67	N
ATOM	1682 N THR A 739	25.969 29.310 -1.727 1.00 58.50	C
ATOM	1683 CA THR A 739	25.556 27.512 -1.703 1.00 59.54	C
ATOM	1 1684 CB THR A 739	27.860 27.603 -2.464 1.00 61.53	O C
ATON	aga mup A 739	26.477 25.624 -2.335 1.00 56.55	č
ATON ATON	1687 C THR A 739	24.445 27.205 1 082 1 00 59 25	0
ATO	1688 O THR A 739	23.209 27.300 0 040 1 00 58.26	N
ATO	" THE A 740	24.784 26.358 0.040 1.00 307-1	

	1.000	מא נ	PHE A	740	23.717	25.691	0.824	1.00 5		C	
MOTA	1690 1691			740	24.275	24.753	1.916	1.00 5		C	
ATOM ATOM	1692		PHE A		23.766	23.309	1.820	1.00 5		C C	
ATOM	1693	CD1 I	PHE A	740	23.655	22.501	2.964 0.570	1.00 5		č	
ATOM	1694		PHE A		23.552	22.717 21.124	2.869	1.00		С	
MOTA	1695		PHE A		23.334	21.348	0.459	1.00		С	
ATOM	1696		PHE A		23.232	20.545	1.609	1.00 5		Ç	
ATOM	1697		PHE A		22.747	26.650	1.485	1.00 5		C	
ATOM ATOM	1698 1699		PHE A		23.100	27.854	1.600	1.00 5		0	
ATOM	1700		PHE A		21.659	26.155	1.883	1.00 5		Ċ	
ATOM	1701		THR B		53.535	31.623	-7.794 -7.453	1.00		Ö	
MOTA	1702		THR B		54.498 53.862	30.619 32.162	-9.155	1.00		С	
MOTA	1703		THR B		52.144	33.260	-6.617	1.00	52.46	С	
ATOM	1704		THR B		51.499	33.024	-5.605	1.00		0	
MOTA MOTA	1705 1706			531	54.114	32.319	-5.436	1.00		N C	
ATOM	1707			531	53.565	32.760	-6.760	1.00		N	
ATOM	1708		LEU B		51.642	33.932	-7.642 -7.568	1.00		Ċ	
MOTA	1709		LEU B		50.297	34.468 35.966	-7.867	1.00		С	
ATOM	1710		LEU B		50.344 49.166	36.830	-7.427	1.00		Ç	
ATOM	1711		LEU B		48.523	36.249	-6.170	1.00		C	
ATOM ATOM	1712 1713	CD2	LEU B	532	49.654	38.263	-7.217	1.00		C	
ATOM	1714		LEU B		49.371	33.716	-8.522	1.00		Ö	
ATOM	1715	0	LEU B		48.202	33.468	-8.208 -9.674	1.00		N	
ATOM	1716		VAL B		49.905	33.323	-10.644	1.00		С	
MOTA	1717			533	49.118 49.864	32.379	-11.973	1.00		С	
MOTA	1718			533 533	48.904	32.609	-13.119	1.00		C	
MOTA	1719 1720		VAL B		51.059	33.297	-12.053		45.04	C C	
ATOM ATOM	1721		VAL B		48.836		-10.058		46.02	Ö	
ATOM	1722	0	VAL B		47.838		-10.386 -9.194		45.65 45.79	Ŋ	
ATOM	1723		SER B		49.735 49.612	30.739 29.456	-8.519		45.42	С	
ATOM	1724		SER B		50.850	29.257	-7.626	1.00	48.31	C	
ATOM	1725 1726	CB OG	SER B		51.046	30.367	-6.752		49.46	0	
MOTA MOTA	1727	c	SER B		48.317	29.438	-7.670		44.05	C O	
ATOM	1728	ō	SER B	534	47.469	28.549	-7.793		42.13 43.24	N	
MOTA	1729	N	LEU B		48.170	30.445	-6.818 -5.966		42.58	C	
MOTA	1730	CA	LEU B		47.000 47.201	30.557 31.699	-4.991		42.81	С	
ATOM	1731	CB	LEU B		46.191	31.831	-3.866	1.00	43.93	C	
ATOM ATOM	1732 1733	CG CD1	LEU B		46.937	32.422	-2.683		43.21	C	
ATOM	1734		LEU B		44.990	32.694	-4.298		43.23 42.64	c	
ATOM	1735	С	LEU B		45.739	30.775	-6.808 -6.363		42.26	ŏ	
MOTA	1736	0	LEU B		44.624 45.928	30.486 31.285	-8.021		40.12	- N	
ATOM	1737	N	LEU B		44.840	31.494	-8.952	1.00	38.89	c	
ATOM	1738 1739	CA CB	LEU B		45.269	32.410	-10.092		37.55	C	
ATOM ATOM	1740	ÇG	LEU B		45.436	33.880	-9.739		36.50 34.87	c	
ATOM	1741		TEO B		45.524		-11.043 -8.887		33.97	č	
MOTA	1742		LEU B		44.276	34.410 30.169	-9.544		40.21	С	
ATOM	1743	C	LEU B		44.361 43.164	29.975	-9.760		42.19	0	
ATOM	1744 1745	N O	GLU E		45.290	29.262	-9.825		40.76	N	
MOTA MOTA	1746	CA	GLU E		44.935	27.954	-10.363		42.21	C C	
ATOM	1747	СВ	GLU E	3 537	46.191	27.193	-10.792	1.00	46.50 52.78	č	
ATOM	1748	CG	GLU E		46.715	27.620	-12.142 -12.399	1.00	56.56	c	
MOTA	1749	CD	GLU E		48.122 49.031	27.566	-11.655		60.08	0	
MOTA	1750		GLU E		48.322		-13.335	1.00	58.00	0	
MOTA	1751 1752	C	GLU E		44.161		-9.360		40.58	C	
MOTA ATOM	1753	ŏ	GLU E		43.294	26.317	-9.756		40.00	O N	
MOTA	1754	N	VAL E		44.469		-8.071		38.01 37.67	Ç	
ATOM	1755	CA	VAL E		43.794		-7.054 -5.755		37.04	c	
MOTA	1756	CB	VAL I		44.644		-6.061		35.58	С	
ATOM	1757		VAL I		45.952 44.916		-5.162	1.00	39.11	C	
MOTA	1758 1759		· VAL I		42.414		,-6.697		36.72	C	
ATOM ATOM	1760		VAL I		41.477	26.192	-6.543		38.84	O N	
ATOM	1761	N		в 539	42.277		-6.587		35.27 32.74	C	
ATOM	1762	CA		В 539	40.991		-6.245 -5.684		32.74	č	
MOTA	1763		ILE !	B 539	41.160				28.89	С	
MOTA	1764		ILE I	D 339 B 570	42.103 41.568			1.00	27.27	c	
MOTA	1765 1766		ILE		41.379		-6.429	1.00	25.41	C	
MOTA MOTA	1767			B 539	40.031	28.971	-7.442		32.37	C 0	
ATOM	1768		ILE	в 539	38.890	29.419			31.53 31.76		
ATOM	1769	N		B 540	40.516	28.552			34.90		
ATOM	1770	CA	GLU	B 540	39.733	28.548	, ,,,,,,				

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ATOM	1771		GLU B		40.594	28.232 -11.027	1.00 34.37 1.00 36.00	C C
ATOM	1772		GLU B		39.810 39.120	28.224 -12.326 29.560 -12.685	1.00 39.37	С
ATOM ATOM	1773 1774	CD OE1	GLU B		38.377	29.558 -13.686	1.00 42.75	0
ATOM	1775		GLU B	540	39.297	30.612 -12.015 27.456 -9.701	1.00 40.19 1.00 36.39	C
MOTA	1776	С	GLU B		38.708 39.070	27.456 -9.701 26.285 -9.569	1.00 38.72	0
ATOM ATOM	1777 1778	N O	GLU B PRO B		37.407	27.809 -9.754	1.00 37.28	N
ATOM	1779	CD	PRO B		36.901	29.193 -9.829	1.00 35.84 1.00 37.87	C C
ATOM	1780	CA	PRO B		36.296 35.070	26.845 -9.646 27.722 -9.895	1.00 37.10	С
MOTA	1781 1782	CB CG	PRO B		35.470	29.041 -9.345	1.00 37.64	c
ATOM ATOM	1783	C	PRO B		36.402	25.671 -10.631	1.00 39.34	C O
ATOM	1784	0	PRO B		37.192	25.709 -11.572 24.628 -10.420	1.00 39.51 1.00 41.68	n
ATOM	1785 1786	N CA	GLU B		35.606 35.626	23.453 -11.292	1.00 44.41	C
ATOM ATOM	1787	CB	GLU B		35.385	22.190 -10.481	1.00 45.45 1.00 52.64	C
ATOM	1788	CG	GLU B		36.320 36.239	22.065 -9.296 20.709 -8.601	1.00 55.59	č
ATOM	1789 1790	CD OF1	GLU B		35.168	20.380 -8.045	1.00 57.23	0
ATOM ATOM	1791		GLU B		37.248	19.965 -8.602	1.00 56.53	0 C
ATOM	1792	C	GLU B		34.524	23.594 -12.305 24.177 -12.004	1.00 44.81 1.00 46.84	ŏ
ATOM	1793	O N	GLU B VAL B		33.497 34.716	23.051 -13.497	1.00 44.00	И
ATOM ATOM	1794 1795	CA	VAL B		33.697	23.154 -14.517	1.00 45.77 1.00 46.89	C
MOTA	1796	СВ	VAL B		34.148 35.156	22.486 -15.802 23.406 -16.532	1.00 48.10	С
MOTA	1797 1798		VAL B		34.769	21.112 -15.467	1.00 51.04	C
ATOM ATOM	1799	C	VAL B		32.372	22.542 -14.087	1.00 46.09	C 0
ATOM	1800	0	VAL B		32.187 31.436	21.329 -14.148 23.385 -13.658	1.00 46.57 1.00 46.41	N
ATOM	1801 1802	N CA	LEU B		30.136	22.885 -13.244	1.00 47.24	C
ATOM ATOM	1803	CB	LEU B		29.283	24.003 -12.664	1.00 43.60 1.00 43.48	C
ATOM	1804	CG	LEU B		29.687	24.562 -11.302 25.854 -10.958	1.00 42.42	С
ATOM	1805		LEU B		28.872 29.506	23.453 -10.270	1.00 41.55	c
ATOM ATOM	1806 1807	C	LEU B	544	29.379	22.204 -14.388	1.00 49.87	C 0
ATOM	1808	0	LEU B		29.517	22.561 -15.558 21.219 -14.037	1.00 50.23 1.00 52.75	Ŋ
ATOM	1809 1810	n Ca	TYR B		28.560 27.773	20.509 -15.034	1.00 52.89	c
MOTA ATOM	1811	CB	TYR B		27.756	19.020 -14.730	1.00 53.87 1.00 53.89	C
ATOM	1812	CG	TYR B		28.930 28.835	18.285 -15.315 17.692 -16.568	1.00 53.83	С
ATOM	1813 1814	CD1 CE1	TYR B		29.916	17.040 -17.138	1.00 54.82	C
ATOM ATOM	1815		TYR B		30.148	18.211 -14.637	1.00 53.16 1.00 53.59	C
MOTA	1816		TYR B		31.248 31.119	17.557 -15.206 16.976 -16.458	1.00 54.13	С
ATOM	1817 1818	CZ OH	TYR B		32.178	16.322 -17.041	1.00 54.34	0
ATOM ATOM	1819	C.	TYR B	545	26.369	21.038 -15.023	1.00 53.05 1.00 52.36	C 0
MOTA	1820	0	TYR B		25.901 25.705	21.526 -13.998 20.934 -16.168		N
ATOM ATOM	1821 1822	N CA	ALA B		24,322	21.381 -16.328	1.00 58.49	C
ATOM	1823	CB	ALA B	546	24.136	22.003 -17.719	1.00 59.10 1.00 59.76	c c
ATOM	1824	C	ALA B		23.317 22.175	20.238 -16.143 20.466 -15.743		0
MOTA MOTA	1825 1826	N N	ALA B		23.748	19.014 -16.438	1.00 60.65	N C
ATOM	1827	CA	GLY B	547	22.856	17.873 -16.322 17.986 -17.326	1.00 60.96 1.00 60.72	č
ATOM	1828	C O	GLY B		21.720 20.659	17.399 -17.147	1.00 59.16	0
ATOM ATOM	1829 1830	N	TYR E		21.940	18.753 -18.387	1.00 61.52	N C
ATOM	1831	CA	TYR E		20.921	18.923 -19.396 19.855 -20.484	1.00 62.74	č
ATOM	1832	CB CG	TYR E		21.398 20.380		1.00 55.17	c
ATOM ATOM	1833 1834		TYR E		20.375	19.305 -22.720	1.00 53.99	C
ATOM	1835		TYR E		19.487		1.00 51.38	č
ATOM	1836 1837		TYR E		19.457 18.557	21.384 -22.492	1.00 49.83	C
MOTA MOTA	1838	CZ	TYR		18.583	20.592 -23.638	1.00 48.86	. с
ATOM	1839	OH	TYR E	3 548	17.736		1.00 46.76	, c
ATOM	1840 1841		TYR E		. 20.562 21.442	16.799 -20.358	1.00 66.88	0
ATOM ATOM	1842	N	ASP E	3 549	19.257	17.365 -20.145	1.00 69.27	N C
ATOM	1843	CA	ASP E	3 549	18.704		1.00 71.55 1.00 73.15	ç
MOTA	1844 1845	CB CG	ASP E		17.170 16.514	17.480 -20.973	3 1.00 74 <i>.</i> 14	c
ATOM ATOM	1846	OD:	L ASP I	3 549	16.259	17.711 -22.182	2 1.00 73.77	0
MOTA	1847	OD2	ASP I	B 549	16.250		3 1.00 74.24 5 1.00 73.19	c
MOTA	1848 1849	C	ASP I	B 549 B 549	19.063 18.379	16.515 -23.055	5 1.00 73.92	0
ATOM ATOM	1850			B 550	20.148	15.260 -22.438	3 1.00 74.98	N C
ATOM	1851	CA	SER I	В 550	20.549	14.990 -23.815	5 1.00 76.61	_

ATOM	1852	СВ	SER B 550	21.935	14.336 -23.871	1.00 75.54	C 0
ATOM	1853	OG	SER B 550	21.985	13.167 -23.074	1.00 74.80 1.00 78.04	c
MOTA	1854		SER B 550	19.506 18.787	14.020 -24.343 13.387 -23.560	1.00 77.91	ŏ
MOTA	1855		SER B 550 SER B 551	19.422	13.921 -25.665	1.00 79.17	N
ATOM ATOM	1856 1857		SER B 551	18.474	13.027 -26.323	1.00 81.34	C
ATOM	1858	CB	SER B 551	18.504	11.641 -25.659	1.00 82.27 1.00 83.00	ŏ
MOTA	1859		SER B 551	17.671	11.596 -24.510 13.600 -26.273	1.00 83.00	č
MOTA	1860		SER B 551 SER B 551	17.056 16.361	13.680 -27.290	1.00 82.14	0
ATOM ATOM	1861 1862		VAL B 552	16.629	13.986 -25.077	1.00 81.84	N C
MOTA	1863	CA	VAL B 552	15.306	14.569 -24.892	1.00 81.85 1.00 82.63	c
MOTA	1864		VAL B 552	15.081 13.634	14.996 -23.411 15.480 -23.222	1.00 81.65	С
MOTA	1865 1866		VAL B 552 VAL B 552	15.443	13.832 -22.458	1.00 83.46	C
ATOM ATOM	1867	C	VAL B 552	15.162	15.804 -25.793	1.00 81.93	С 0
ATOM	1868		VAL B 552	16.094	16.608 -25.924	1.00 82.19 1.00 81.61	Ŋ
MOTA	1869	N	PRO B 553		15.967 -26.431 15.107 -26.323	1.00 80.19	С
ATOM	1870 1871	CD CA	PRO B 553		17.110 -27.318	1.00 80.27	C
ATOM ATOM	1872	CB	PRO B 553	12.218	17.100 -27.451	1.00 80.16	C C
ATOM	1873	CG	PRO B 553		15.631 -27.436 18.442 -26.785	1.00 79.27 1.00 79.83	č
MOTA	1874	C	PRO B 553		18.778 -25.611	1.00 79.92	0
ATOM	1875 1876	N N	PRO B 553 ASP B 554		19.198 -27.654	1.00 78.79	N
ATOM ATOM	1877	CA	ASP B 554	15.508	20.482 -27.252	1.00 77.47	C
MOTA	1878	CB	ASP B 55		20.717 -27.930 19.629 -27.615	1.00 77.91 1.00 77.88	č
MOTA	1879	CG	ASP B 554		18.586 -28.303	1.00 78.18	0
ATOM ATOM	1880 1881		ASP B 55		19.816 -26.674	1.00 77.69	0
MOTA	1882	C	ASP B 55	14.594	21.647 -27.565	1.00 76.06 1.00 75.66	C
MOTA	1883	0	ASP B 55		21.878 -28.720 22.376 -26.520	1.00 74.25	N
MOTA	1884 1885	N CA	SER B 55		23.543 -26.656	1.00 72.59	c
ATOM ATOM	1886	CB	SER B 55		23.329 -25.877	1.00 72.79	C
MOTA	1887	OG	SER B 55	12.283	22.710 -24.622	1.00 75.31 1.00 70.73	č
ATOM	1888	C	SER B 55		24.793 -26.160 24.699 -25.373	1.00 70.09	. 0
ATOM	1889 1890	O N	SER B 55		25.957 -26.655	1.00 68.52	И
ATOM ATOM	1891	CA	THR B 55		27.219 -26.275	1.00 66.69	C
ATOM	1892	CB	THR B 55		28.438 -27.057 28.346 -28.447	1.00 66.90 1.00 64.81	ŏ
ATOM	1893	OG1	THR B 55 THR B 55		29.772 -26.492	1.00 65.81	С
MOTA MOTA	1894 1895	C	THR B 55		27.416 -24.781	1.00 65.58	C
ATOM	1896	ō	THR B 55	14.967	27.994 -24.111	1.00 66.13 1.00 64.21	N
MOTA	1897	N	TRP B 55		26.938 -24.260 27.032 -22.831		С
ATOM	1898 1899	CA CB	TRP B 55		26,695 -22.578	1.00 62.06	C
ATOM ATOM	1900	CG	TRP B 55	7 10.956	26.021 -21.247	1.00 61.31	C C
ATOM	1901		TRP B 55		26.667 -20.037 25.662 -19.046	1.00 60.38 1.00 59.49	č
ATOM	1902	CE2	TRP B 55		27.997 -19.702		C
ATOM ATOM	1903 1904		TRP B 55		24.679 -20.944	1.00 59.49	C N
ATOM	1905	NE1	TRP B 55	7 10.759			C
MOTA	1906		TRP B 55				Ċ
ATOM ATOM	1907 1908		TRP B 55		27.272 -17.426	1.00 61.65	C
MOTA	1909	C	TRP B 55	7 13.606	26.052 -22.064		C 0
MOTA	1910	0	TRP B 55				И
MOTA	1911	n ca	ARG B 55		01 000		Ç
MOTA MOTA	1912 1913	CB	ARG B 55		22.674 -22.895	1.00 62.98	C C
ATOM	1914	CG	ARG B 55	8 14.895			c
MOTA	1915	CD	ARG B 55				N
MOTA	1916 1917	NE CZ	ARG B 55		19.510 -19.696	1.00 74.59	C
ATOM ATOM	1918		ARG B 55		20.114 -19.672		N N
ATOM	1919		ARG B 55				Č
MOTA	1920	C	ARG B 55				. O
ATOM	.1921 `1922	O N	ARG B 55		24.836 -22.75	1.00 60.30	N
MOTA MOTA	1923	CA	ILE B 55	9 18.123	25.407 -22.621	1.00 60.43	C C
ATOM	1924	CB	ILE B 55	9 18.654		1.00 61.09	č
MOTA	1925		LILE B 55		24.698 -24.98	3 1.00 61.81	С
MOTA MOTA	1926 1927		ILE B 5	9 18.191	25.175 -26.39	1.00 62.72	C C
ATOM	1928		ILE B 5	9 18.085	26.629 -21.709	9 1.00 60.11 7 1.00 59.62	0
MOTA	1929	0	ILE B 5				И
MOTA	1930 1931		MET B 50		28.822 -21.28	2 1.00 59.34	c
MOTA MOTA	1932		MET B 5			1.00 59.92	С

ATOM	1933	CG I	MET B	560	16.233	31.047	-22.190	1.00			C S
ATOM	1934		MET B		17.896	31.173			61.79 58.94		č
ATOM	1935			560	18.760	31.964 28.507			57.75		c
ATOM	1936		MET B		16.926 17.618	29.078			57.61		0
MOTA	1937	-	MET E THR E		15.998	27.601		1.00	55.55		N
MOTA	1938 1939		THR E		15.729	27.198	-18.132		53.55		C
ATOM ATOM	1939		THR E		14.591	26.161	-18.054		53.95		C O
ATOM	1941		THR E		13.350	26.820			52.84 53.12		č
ATOM	1942		THR E		14.520	25.528 26.605			51.53		c
ATOM	1943		THR E		16.978 17.378	26.999	-16.442		50.26		0
ATOM	1944		THR E		17.579	25.657		1.00	49.66		N
ATOM ATOM	1945 1946		THR E		18.810	25.022	-17.808		49.12		C
ATOM	1947		THR E		19.320	23.993			50.68		Ö
ATOM	1948		THR F		18.404	22.894			52.09 50.87		č
MOTA	1949		THR I		20.724	23.470	-17.582		48.40		C
MOTA	1950		THR I		19.894 20.567		-16.553	1.00	47.52		0
ATOM	1951		THR I		20.054	27.022	-18.533	1.00	46.37		N
ATOM ATOM	1952 1953		LEU I		21.048		-18,428		44.96		C
ATOM	1954			B 563	20.981		-19.629		42.57 41.88		č
ATOM	1955	CG		в 563	21.584		-20.923		44.04		c
MOTA	1956	CD1	LEU I	B 563	21.571 22.993	28 063	-21.965 -20.692		38.22		С
ATOM	1957			B 563 B 563	20.834		-17.151		44.63		C
ATOM ATOM	1958 1959	C O		B 563	21.756	29.073	-16.357		43.72		o N
ATOM	1960	N		В 564	19.610		-16.970		44.55		C
ATOM	1961	CA		В 564	19.236	30.138	-15.774		44.34 45.27		Ċ
ATOM	1962	CB		B 564	17.725 17.205		-15.768 -14.422		44.22		С
ATOM	1963	CG	ASN I	B 564 B 564	16.947		-13.538	1.00	47.93		0
ATOM	1964 1965			B 564	17.049	32.152	-14.260		43.51		N
ATOM ATOM	1966	C		В 564	19.643	29.370	-14.518		44.02		C O
ATOM	1967	0		B 564	19.969		-13.505		44.84 44.14		N
ATOM	1968	N		B 565	19.631 19.999		-14.583 -13.433		45.57		С
MOTA	1969	CA		B 565 B 565	19.510		-13.651	1.00	49.00		C
ATOM ATOM	1970 1971	CB CG		B 565	18.756	25.166	-12.488		52.27		C S
ATOM	1972	SD		в 565	17.174		-12.316		58.47 56.49		C
ATOM	1973	CE		в 565	17.492		-11.015 -13.259		44.03		C
MOTA	1974	C		B 565	21.524 22.041		-12.181		43.31		0
MOTA	1975 1976	O N		B 565 B 566	22.228		-14.344		42.39		N
ATOM ATOM	1977	CA		B 566	23.678	26.888	-14.345		41.58		C
ATOM	1978	СВ	LEU	в 566	24.170		-15.718		41.94 41.63		č
MOTA	1979	CG		B 566	25.678		-15.881 -14.989		39.20		C
ATOM	1980		LEU		26.289 25.935	26.079	-17.325		41.22	•	С
MOTA	1981 1982	CDZ		В 566 В 566	24.247	28.254	-13.974		41.75		C
ATOM ATOM	1983	ŏ		в 566	25.291		-13.327		41.14		N O
ATOM	1984	N	GLY		23.535		-14.370		42.02		c
MOTA	1985	CA	GLY		23.978 23.954		-14.059 -12.566		41.08		С
ATOM	1986	C		B 567 B 567	24.932		-12.014	1.00	42,52		0
ATOM	1987 1988	O N	GLY	B 568	22.861	30.561	-11.895	1.00	39.31		N
ATOM ATOM	1989	CA	GLY	в 568	22.793		-10.475		38.13		C
ATOM	1990	C		в 568	23.970	30.260 30.934			37.52		ŏ
MOTA	1991	0		B 568	24.615 24.259	28.998			37.58		N
MOTA	1992	n Ca		B 569 B 569	25.351	28.328		1.00	36.13		C
MOTA MOTA	1993 1994	CB		B 569	25.391	26.854			36.43		C
ATOM	1995	CG		в 569	24.270	26.050			38.98		č
ATOM	1996	CD		B 569	24.016	24.789 23.861			39.56		N
ATOM	1997	NE		B 569	25.145 25.377		-11.032		41.15		С
ATOM	1998	CZ		В 569 В 569	24.561	23.096	-12.080		38.05		N
ATOM ATOM	1999 2000	NH2	ARG	B 569	26.413		-11.028		39.60		N C
ATOM	2001			В 569	26.663	28.987			33.30		Ö
ATOM	2002	0	ARG.	в 569	27.512	29.155			33.36 31.04		N
MOTA	2003			B 570			-10.931 -11.387		31.08		С
ATOM	2004			B 570 B 570			-12.891	1.00	26.96		C
MOTA	2005 2006			B 570		28.885	-13.630	1.00	29.94		C
MOTA MOTA	2007			B 570	28.535	29.086	5 -15.079	1.00	32.05		C
ATOM	2008	OE1	GLN	B 570	28.926		-15.465		36.79 29.82		Ŋ
ATOM	2009			B 570			1 -15.887 3 -10.724		31.75		С
ATOM	2010			В 570 В 570		31.643	3 -10.377	1.0	29.96		0
ATOM	2011 2012			B 571		32.165	5 -10.574	1.0	33.50		N
ATOM ATOM	2012			B 571					0 35.41		С
A. 0.1	3										

AROM 2018 0 VAL B 571												
ATOM 2015 CGI VAL B 571	a moss	2014	CB	VAL B	571	26.066	34.235					
ARONE 2016 GGZ VAL B 571		_				26.301						
ATOM 2011 0 VAL B 571 28.591 34.010 -7.388 1.00 35.45 N ATOM 2022 CG 21 EB 572 27.582 31.806 -6.524 1.00 31.51 CG ATOM 2021 CG 11 EB 572 27.582 31.806 -6.524 1.00 31.21 CG ATOM 2022 CG 21 EB 572 27.582 31.806 -6.524 1.00 31.21 CG ATOM 2022 CG 21 EB 572 27.329 29.974 -4.816 1.00 29.13 CG ATOM 2024 CD1 ILE B 572 27.329 29.974 -4.816 1.00 29.13 CG ATOM 2024 CD1 ILE B 572 24.231 29.975 -6.636 1.00 29.39 CG ATOM 2024 CD1 ILE B 572 24.231 29.975 -6.636 1.00 29.39 CG ATOM 2025 C ILE B 572 24.231 29.975 -6.636 1.00 29.39 CG ATOM 2026 N ALB 573 30.980 29.179 -8.583 1.00 25.76 CG ATOM 2027 C ALB B 573 30.980 29.179 -8.583 1.00 29.00 CG ATOM 2028 C ALB B 573 30.980 29.179 -8.583 1.00 24.14 AND 2028 C ALB B 573 31.386 -7.780 1.00 31.62 CG ATOM 2021 C ALB B 573 31.381 31.386 -7.780 1.00 31.62 CG ATOM 2023 C ALB B 573 31.381 31.386 -7.780 1.00 31.62 CG ATOM 2023 C ALB B 574 31.315 32.342 -8.532 1.00 31.74 AND 2023 C ALB B 574 31.315 32.342 -8.532 1.00 31.74 AND 2023 C ALB B 574 31.315 32.342 -8.532 1.00 31.62 CG ATOM 2023 C ALB B 574 31.315 32.342 -8.532 1.00 31.62 CG ATOM 2023 C ALB B 574 31.315 32.342 -7.571 1.00 31.62 CG ATOM 2023 C ALB B 574 31.315 32.342 -7.571 1.00 31.62 CG ATOM 2023 C ALB B 574 31.315 32.342 -7.571 1.00 31.62 CG ATOM 2024 C ALB B 574 31.315 32.342 -7.571 1.00 31.62 CG ATOM 2025 C ALB B 574 31.315 32.342 -7.571 1.00 31.62 CG ATOM 2026 C ALB B 574 31.315 32.342 -7.571 1.00 31.62 CG ATOM 2027 C ALB B 575 31.264 35.298 -7.503 1.00 36.62 CG ATOM 2028 C ALB B 575 31.264 35.298 -7.503 1.00 36.60 CG ATOM 2029 C ALB B 575 31.264 35.298 -7.503 1.00 36.60 CG ATOM 2040 C C C VAL B 575 31.264 35.298 -7.503 1.00 36.60 CG ATOM 2040 C C C VAL B 575 31.264 35.298 -7.503 1.00 36.60 CG ATOM 2040 C C C VAL B 575 31.264 35.298 -7.503 1.00 36.60 CG ATOM 2040 C C C VAL B 575 32.995 35.303 -7.388 1.00 33.16 CG ATOM 2040 C C C VAL B 575 32.995 35.303 -7.378 1.00 31.65 CG ATOM 2040 C C C VAL B 575 32.995 35.303 -7.795 1.00 31.65 CG ATOM 2040 C C C C VAL B 575 32.306 CG ATOM 2040 C C C C C C C C C C C C C C C C C C		2016										
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ATOM 2093 O ILE B 581 41.364 38.113 -2.362 1.00 50.35				ILE B	581	41.986					C	
ATOM 2094 N PRO B 582 43.322 31.1.1 5.012 100 05.00	MOTA	2093	0								N	
	MOTA	2094	N	PRO B	202	43,344	U1.272					

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								1.00 51.97		С
ATOM	2095		PRO B		44.156	36.270 37.833	-3.831 -1.993	1.00 52.23		С
MOTA	2096		PRO B PRO B		44.144 45.559	37.439	-2.391	1.00 51.78		C
ATOM	2097 2098		PRO B		45.354	36.052	-2.935	1.00 52.32		C
MOTA MOTA	2099		PRO B		43.953	39.336	-1.972	1.00 52.42 1.00 52.27		ŏ
ATOM	2100		PRO B		44.176	39.995 39.873	-2.976 -0.828	1.00 52.27		N
ATOM	2101		GLY B		43.539 43.349	41.309	-0.719	1.00 56.21		C
MOTA	2102	CA C	GLY B	583	41.911	41.773	-0.853	1.00 57.81		C 0
ATOM ATOM	2103 2104		GLY E		41.496	42.779	-0.251	1.00 57.14		И
ATOM	2105	N	PHE E	584	41.153	41.016	-1.645 -1.913	1.00 57.07 1.00 56.28		c
ATOM	2106		PHE E		39.754 39.090	41.314 40.197	-2.742	1.00 54.11		С
ATOM	2107		PHE E		37.737	40.581	-3.304	1.00 51.12		C
ATOM	2108 2109	CG	PHE E		37.642	41.348	-4.476	1.00 49.08		C C
MOTA MOTA	2110		PHE E		36.562	40.210	-2.644	1.00 49.85 1.00 47.25		č
ATOM	2111		PHE F	3 584	36.397	41.739 40.594	-4.985 -3.138	1.00 48.80		С
ATOM	2112	CE2	PHE E		35.308 35.22 3	41.365	-4.315	1.00 47.67		С
ATOM	2113	CZ	PHE F		38.995	41.493	-0.617	1.00 56.26		C
MOTA MOTA	2114 2115	C O	PHE I		38.220	42.433	-0.480	1.00 55.08		N N
ATOM	2116	N	ARG I		39.235	40.592	0.331	1.00 58.69 1.00 61.91		Ċ
ATOM	2117	CA	ARG I		38.562	40.632 39.267	1.624 2.305	1.00 63.76		С
MOTA	2118	CB	ARG I		38.662 37.513	38.322	1.968	1.00 67.70		C
ATOM	2119 2120	CG	ARG I		37.834	36.903	2.412	1.00 71.46		C N
ATOM ATOM	2121	NE	ARG I		36.657	36.039	2.427	1.00 74.39 1.00 76.32		Č
ATOM	2122	CZ	ARG 1	в 585	35.624	36.198	3.248 4.123	1.00 75.32		N
MOTA	2123	NH1	ARG I	B 585	35.621 34.601	37.196 35.355	3.199	1.00 75.99		N
ATOM	2124		ARG !	B 585	39.115	41.711	2.537	1.00 62.76		C
ATOM ATOM	2125 2126	C O		В 585	38.637	41.887	3.656	1.00 62.64		O N
ATOM	2127	N	ASN :	в 586	40.113	42.435	2.035 2.771	1.00 64.45 1.00 64.61		Ċ
MOTA	2128	CA		в 586	40.766 42.275	43.513 43.472	2.504	1.00 66.13		С
ATOM	2129	CB		В 586 В 586	42.273	42.392	3.320	1.00 67.85		С
ATOM	2130 2131	CG OD1		В 586	44.108	41.984	2.984	1.00 68.10		O N
ATOM ATOM	2132		ASN	в 586	42.354	41.938	4.404	1.00 65.32 1.00 63.96		Č
ATOM	2133	С		В 586	40.188	44.872 45.917	2.372 2.894	1.00 64.26		0
MOTA	2134	0		В 586 В 587	40.596 39.233	44.842	1.444	1.00 62.57		N
ATOM	2135 2136	N CA		B 587	38.564	46.047	0.966	1.00 61.58		C
ATOM ATOM	2137	CB		в 587	38.194	45.912	-0.511	1.00 58.98 1.00 59.49		c
ATOM	2138	CG		в 587	39.356	45.692 45.433	-1.495 -2.886	1.00 59.05		С
ATOM	2139			В 587 В 587	38.808 40.276	46.900	-1.518	1.00 57.88		C
ATOM	2140 2141	CD2		В 587	37.307	46.271	1.789	1.00 63.11		C O
ATOM ATOM	2142	ŏ		B 587	36.852	45.376	2.508	1.00 63.15 1.00 64.34		N
ATOM	2143	N		в 588	36.744	47.472	1.690 2.421	1.00 64.43		C
MOTA	2144	CA		B 588	35.525 35.265	47.805 49.306	2.377	1.00 64.60		C
MOTA	2145 2146	CB CG		в 588 в 588	34.160	49.748	3.286	1.00 65.47		C
ATOM ATOM	2147	CD2		в 588	34.073	49.762	4.640	1.00 65.16 1.00 65.59		N
ATOM	2148	ND1	HIS	в 588	32.972	50.265 50.586	2.825 3.847	1.00 65.46		С
MOTA	2149			B 588	32.200 32.850	50.290	4.966	1.00 64.20		N
MOTA	2150 2151	NE2		в 588 в 588	34.356	47.078	1.780	1.00 65.29		C
ATOM ATOM	2152	ŏ	HIS	в 588	34.245	47.026	0.555	1.00 65.54		N
ATOM	2153	N	LEU	в 589	33.477	46.531	2.612 2.145	1.00 66.86 1.00 67.61		C
MOTA	2154	CA		B 589	32.298 31.412	45.792 45.439	3.347	1.00 67.20		С
ATOM	2155 2156	CB CG		в 589 в 589	31,541	43.999	3.885	1.00 67.39		C
ATOM ATOM	2157	CDI	LEU	в 589	33.008	43.597	4.049	1.00 67.13		C
ATOM	2158	CD2	LEU	в 589	30.789	43.883	5.210 1.069			č
ATOM	2159			B 589	31.469 30.886	46.504 45.863				0
ATOM	2160			в 589 в 590	31.418			1.00 69.04		N
ATOM	2161 2162		ASP	В 590	30.656	48.587	0.158	1.00 68.39		C
ATOM ATOM	2163		ASP	в 590	30.765	50.081				C
ATOM	2164	. CG	ASP	в 590	29.736				"	0
ATOM	2165	OD:	ASP	B 590	29.611 29.061			1.00 76.72		0
MOTA	2166 2167		ASP ASP	в 590 в 590	31.168		-1.249	1.00 66.47		0
ATOM ATOM	2168		ASP	в 590	30.468	47.730	-2.063			Ŋ
MOTA	2169		ASP	в 591	32.396					С
MOTA	2170	CA		B 591	32.971 34.228					С
ATOM	2171			в 591 в 591	35.166			1.00 61.62		C
MOTA	2172 2173	CG OD	ASP	в 591	35.780	50.218	-1.391			0
ATOM ATOM	2174	OD	2 ASP	в 591	35.285					č
ATOM	2175		ASP	в 591	33.271	47.109	, -3.130	, 1.00 00.44		

MOTA	2176	0	ACD I	B 591	33.292	46.701	-4.365	1.00 59.52		0
ATOM	2177	N		B 592	33.486	46.327	-2.150	1.00 57.96		C N
ATOM	2178	CA	GLN E	в 592	33.759	44.914	-2.287	1.00 55.86 1.00 52.74		Ċ
MOTA	2179	CB		B 592	33.806	44.270 42.889	-0.913 -0.896	1.00 47.79		č
MOTA	2180	CG		В 592 В 592	34.394 34.647	42.391	0.516	1.00 46.59		С
MOTA MOTA	2181 2182	CD OE1		B 592	33.920	41.538	1.026	1.00 47.73		0
ATOM	2183			В 592	35.675	42.933	1.160	1.00 42.57		N C
ATOM	2184	Ç	GLN I	в 592	32.662	44.261	-3.123	1.00 57.21 1.00 58.46		ō
MOTA	2185	0		B 592	32.946	43.563 44.479	-4.095 -2.757	1.00 57.03		N
MOTA	2186	N		B 593 B 593	31.403 30.304	43.890	-3.522	1.00 58.13		C
MOTA MOTA	2187 2188	CA CB		в 593	29.082	43.738	-2.617	1.00 59.13		C
ATOM	2189	CG		В 593	28.448	45.054	-2.267	1.00 61.82		C S
ATOM	2190	SD		в 593	26.724	45.227	-2.812 -1.325	1.00 62.27 1.00 60.13		č
ATOM	2191	CE		В 593 В 593	25.943 29.965	45.936 44.728	-4.792	1.00 57.90		С
ATOM	2192 2193	C O		B 593	29.296	44.257	-5.730	1.00 58.13		0
ATOM ATOM	2194	N		в 594	30.448	45.966	-4.821	1.00 55.54		N C
ATOM	2195	CA		B 594	30.240	46.834	-5.966 -5.715	1.00 53.53 1.00 54.22		č
MOTA	2196	CB		B 594	30.828 30.082	48.231 48.858	-4.668	1.00 54.35		0
MOTA	2197 2198			B 594 B 594	30.769	49.104	-6.982	1.00 52.29		c
ATOM ATOM	2199	C		B 594	30.952	46.211	-7.154	1.00 52.60		C
ATOM	2200	Ō		B 594	30.412	46.183	-8.261	1.00 52.89 1.00 50.76		N
MOTA	2201	N		B 595	32.159	45.699 45.057	-6.912 -7.946	1.00 47.18		Ċ
MOTA	2202	CA		B 595 B 595	32.979 34.350	44.706	-7.365	1.00 45.20		С
MOTA MOTA	2203 2204	CB CG		B 595	35.111	45.855	-6.740	1.00 41.28		C
ATOM	2205			B 595	36.401	45.322	-6.283	1.00 41.87		C
ATOM	2206			B 595	35.362	46.960	-7.720 -8.454	1.00 41.01 1.00 46.37		č
ATOM	2207	C		B 595 B 595	32.282 32.257	43.796 43.517	-9.656	1.00 45.95		0
ATOM	2208 2209	N O		В 596	31.703	43.046	-7.525	1.00 44.90		N
ATOM ATOM	2210	CA		в 596	30.989	41.833	-7.878	1.00 44.60		C
ATOM	2211	CB		в 596	30.632	41.039	-6.627 -6.025	1.00 44.87 1.00 46.28		č
MOTA	2212	CG		B 596	31.760 31.240	40.200 39.549	-4.728	1.00 44.08		С
MOTA	2213			B 596 B 596	32.260	39.152	-7.059	1.00 43.56		C
ATOM ATOM	2214 2215	CD2		B 596	29.718	42.136	-8.654	1.00 43.94		C
ATOM	2216	ō	PEA	B 596	29.327	41.378	-9.547	1.00 43.36 1.00 44.41		N
MOTA	2217	N		B 597	29.063	43.239 43.624	-8.304 -8.994	1.00 44.22		С
ATOM	2218	CA		B 597 B 597	27.836 27.036	44.624	-8.170	1.00 43.70		C
ATOM ATOM	2219 2220	CB CG		B 597	26.136	44.004	-7.121	1.00 45.17		C
MOTA	2221	CD	GLN	в 597	25.330	45.061	-6.370	1.00 46.67 1.00 44.31		ŏ
ATOM	2222			B 597	25.902	45.964 44.959	-5.758 -6.425	1.00 45.92		N
ATOM	2223	NE2		B 597 B 597	24.000 28.130		-10.363	1.00 43.51		c
MOTA MOTA	2224 2225	Ö		В 597	27.235	44.325	-11.189	1.00 43.06		O N
ATOM	2226	N	TYR	B 598	29.392		-10.606	1.00 43.91 1.00 44.52		C
ATOM	2227	CA		В 598	29.779		-11.893 -11.688	1.00 49.40		Č
ATOM	2228	CB		В 598 В 598	30.740 30.086		-11.631	1.00 55.50		С
MOTA MOTA	2229 2230			B 598	29.731	48.288	-12.807	1.00 58.10		C
ATOM	2231	CEI	TYR	B 598	29.136	49.560	-12.771	1.00 59.25		C
ATOM	2232	CD2	TYR	в 598	29.819	48.243	-10.403 -10.347	1.00 57.60 1.00 58.64		. č
ATOM	2233		TYR	В 598 В 598	29.222 28.881	50.174	-11.541	1.00 60.23		С
MOTA	2234 2235	CZ OH		в 598	28.338	51.450	-11.523	1.00 60.97		0
MOTA MOTA	2236	c		в 598	30.442	44.078	-12.811	1.00 42.76		C 0
ATOM	2237	0		B 598	30.239		-14.012	1.00 43.11 1.00 40.24		N
MOTA	2238	N		B 599	31.218		-12.253 -13.077	1.00 38.10		C
ATOM	2239	CA CB		B 599 B 599			-12.609	1.00 38.84		C
ATOM ATOM	2240 2241	OG		В 599		41.950	-11.217	1.00 41.44		0
ATOM	2242	C	SER	в 599	31.450		-13.119	1.00 36.81 1.00 33.47		C O
MOTA	2243	0		B 599			-13.791 -12.416	1.00 35.47		N
MOTA	2244	N		B 600 B 600			-12.432	1.00 37.34		С
MOTA	2245 2246	CA CB		B 600		38.988	-11.531	1.00 37.64	÷	C
MOTA MOTA	2247	CG		B 600		39.609	-12.058	1.00 39.47		C
ATOM	2248	CD2	TRP	в 600	26.391		-12.929			C
MOTA	2249	CE	TRP	в 600	25.380 26.290	39.946 37 721	-13.186 -13.521	1.00 40.66		č
ATOM	2250	CE:	TRP	в 600 в 600		40.882	-11.827	1.00 39.04		C
ATOM ATOM	2251 2252	NE.	TRP	в 600	25.710	41.087	-12.501	1.00 38.87		N
ATOM	2253	CZ	TRP	в 600	24.276		-14.010			C
ATOM	2254	CZ:	3 TRP	в 600	25.192		-14.342 -14.580			c
ATOM	2255		TRP	в 600 в 600	24.196 29.547		-13.875			C
MOTA	2256	С	IKP	ь 000	25.547					

		29.753 37.509 -14.236 1.00 38.47	0
ATOM	2257 O TRP B 600	29 074 39.584 -14.715 1.00 36.22	n C
ATOM	2258 N MET B 601 2259 CA MET B 601	28 760 39.198 -16.087 1.00 36.22	Ċ
ATOM	D CO1	27 713 40.178 -16.683 1.00 36.54	č
ATOM		27 290 39,913 -18.139 1.00 33.77	Š
ATOM	2261 CG MET B 601 2262 SD MET B 601	26.770 38.194 -18.386 1.00 37.55	Ċ
MOTA MOTA	2263 CE MET B 601	24.969 36.310 16.035 1.00 35.10	С
ATOM	2264 C MET B 601	30.043 33.23 17 006 1 00 34 01	0
ATOM	2265 O MET B 601	30.123 30.333 1.00 34 44	N
ATOM	2266 N PHE B 602	31.036 33.034 27.213 1 00 32 17	C
ATOM	2267 CA PHE B 602	32.350 33.050 -16.639 1.00 34.00	C
MOTA	2268 CB PHE B 602	33.233 42.402 -17.054 1.00 35.62	C
ATOM	2269 CG PHE B 602	31 832 43.085 -16.398 1.00 33.13	C C
ATOM	2270 CD1 PHE B 602	33 519 43 035 -18 124 1.00 33 41	c
ATOM	2212 020 000	31 457 44.387 -16.795 1.00 32.13	č
ATOM		27 155 44 335 -18.533 1.00 34.01	č
MOTA	2273 CE2 PHE B 602 2274 CZ PHE B 602	32 120 45.016 -17.868 1.00 31.30	Č
MOTA MOTA	2275 C PHE B 602	32.990 30.323 27.015 1 00 28.04	0
MOTA	2276 O PHE B 602	33.334 37.022 1 00 30 02	N
MOTA	2277 N LEU B 603	33.110 30.11 20 30 70	С
ATOM	2278 CA LEU B 603	33.033 36.767 -13.714 1.00 27.50	C
ATOM	2279 CB LEU B 603	24 129 37 880 -12.893 1.00 29.93	C
MOTA	2280 CG LEU B 603	33 606 37.785 -11.471 1.00 31.17	C
ATOM	2281 CD1 LEU B 603	35 696 37.808 -12.949 1.00 26.74	C
MOTA	2282 CD2 LEU B 603 2283 C LEU B 603	33 024 35.669 -15.946 1.00 31.11	ŏ
ATOM		33 673 34.972 -16.716 1.00 30.37	N
ATOM	2284 O LEU B 603 2285 N MET B 604	31.748 35.412 -15.696 1.00 32.54 31.748 35.412 -16.314 1.00 31.78	Ċ
MOTA	2286 CA MET B 604		С
ATOM ATOM	2287 CB MET B 604		С
ATOM	2288 CG MET B 604	29.400 34.400 12 677 1 00 43.51	S
ATOM	2289 SD MET B 604	27.313 33.00 1 00 39 81	С
ATOM	2290 CE MET B 604	21 222 34 265 -17.845 1.00 30.43	C
MOTA	2291 C MET B 604	31 459 33 241 -18.490 1.00 28.87	O N
ATOM	2292 O MET B 604 2293 N ALA B 605	31.068 35.434 -18.432 1.00 31.34	C
ATOM		31 169 35.538 -19.871 1.00 30.89	č
MOTA	2294 CA ALA B 605 2295 CB ALA B 605	30 763 36.948 -20.294 1.00 29.20	č
MOTA	2296 C ALA B 605	32.612 35.205 -20.330 1.00 31.13	Ö
ATOM ATOM	2297 O ALA B 605	32.837 32.300 10 540 1 00 30 80	N
ATOM	2298 N PHE B 606	33.389 33.08 1 00 29 24	С
ATOM	2299 CA PHE B 606	34.902 35.360 -19.096 1.00 29.25	C
ATOM	2300 CB PHE B 606	37.361 36.422 -19.714 1.00 28.32	C
ATOM	2301 CG PHE B 606	37.201 36.934 -21.001 1.00 27.93	C
MOTA	2302 CD1 PHE B 606	38 395 36.096 -18.981 1.00 26.14	C
ATOM	2303 CD2 PHE B 606 2304 CE1 PHE B 606	38 679 37.117 -21.533 1.00 30.02	č
MOTA	06	39 657 36.275 -19.502 1.00 24.04	č
MOTA	2305 CE2 PHE B 606 2306 CZ PHE B 606	39.807 36.784 -20.776 1.00 28.05 39.807 36.784 -20.776 1.00 27.73	Ċ
MOTA MOTA	2307 C PHE B 606	33.207 33.005 20 444 1 00 30.50	О
ATOM	2308 O PHE B 606	33.537 33.307 -18 620 1.00 25.52	N
ATOM	2309 N ALA B 607	24.005 31.890 -18.313 1.00 25.29	C
ATOM	2310 CA ALA B 607	24.093 31.566 -16.995 1.00 23.67	C
ATOM	2311 CB ALA B 607	24 302 31 031 -19.444 1.00 26.27	C
MOTA		34 and 30.050 -19.902 1.00 22.90	N
ATOM	st tert p 608	33 115 31.431 -19.899 1.00 20.00	C
ATOM	2315 CA LEU B 608	32.323 33.33 1 00 27.02	С
MOTA MOTA	2316 CB LEU B 608	31.033 31.03 00 475 1 00 28 45	С
ATOM	2317 CG LEU B 608	30.310 30.31	c
ATOM	2318 CD1 LEU B 608	30.111 23.644 -22 556 1.00 28.47	C
ATOM	2319 CD2 LEU B 606	20.500 31.055 -22 258 1.00 30.33	C
ATOM	1 2320 C LEU B 606	33 335 29.908 -23.046 1.00 30.76	<i>N</i> 2
ATOM		33 907 32.004 -22.472 1.00 31.11	C N
ATON	CTV B 609	34 786 32,152 -23.629 1.00 34.10	c
ATOM	2324 C GLY B 609	35.953 31.152 -23.597 1.00 33.00	ŏ
ATOPA AUTOM	2325 O GLY B 609	36.184 30.396 -24.552 1.00 35.46	N
IOTA IOTA	2326 N TRP B 610	30.004 31.250 -32 300 1 00 38.21	С
ATO	2327 CA 1.TRP B 610	37.040 30.447 -20 916 1 00 40.90	C
ATO	4 2328 CB TRP B 610	39 607 29.467 -20.641 1.00 43.21	C
ATO	A 2320 CG TRP B DIO	40 991 29.603 -21.034 1.00 42.95	C
ATO!		41 662 28.447 -20.569 1.00 42.00	C C
ATO		41 711 30.582 -21.724 1.00 43.30	C
ATO	OD1 WDD B 610	20 517 28-272 -19.984 1.00 41.00	Й
ATO	2334 NET TRP B 610	40.748 27.660 -19.941 1.00 40.03	Ċ
ATO	2335 CZ2 TRP B 610	43.037 23 23 23 1 00 44.96	С
ATO ATO	2226 CZZ TRP B 610	43.000 33.460 3.00.45.80	С
OTA		43.725 29.226 -21.460 1.00 10.00	
2.0			

101

			27 493 28 798 -22,502 1.00 38.69	C
ATOM	2338 C	TRP B 610		0
ATOM	2339 O	TRP B 610	30.030 20.120 20.000	N
ATOM	2340 N	ARG B 611	30.342 20.300 27 82	С
ATOM	2341 CA	ARG B 611		č
ATOM	2342 CB	ARG B 611	J4.020 20	Č
ATOM	2343 CG	ARG B 611	35.041 26.839 -19.471 1.00 34.29	Č
MOTA	2344 CD	ARG B 611	33.802 26.382 -18.689 1.00 34.72	N
ATOM	2345 NE	ARG B 611	32.580 26.850 -19.338 1.00 33.72	C
	2346 CZ	ARG B 611	31.809 27.842 -18.893 1.00 31.48	
MOTA			32,107 28,485 -17,773 1,00 29,46	N
MOTA			30.757 28.229 -19.609 1.00 33.33	N
MOTA		ARG B 611	35.757 26.565 -23.300 1.00 36.97	C
MOTA	2349 C		36.079 25.465 -23.767 1.00 36.80	0
MOTA	2350 0	ARG B 611	35.112 27.481 -24.021 1.00 37.22	N
MOTA	2351 N	SER B 612	33.112 2.110 1 00 37 74	С
MOTA	2352 CA	SER B 612	05 000 1 00 25 03	С
ATOM	2353 CB	SER B 612	33,700 20,210	0
MOTA	2354 OG		32.012 20.01	С
ATOM	2355 C	SER B 612	30.007 27.20	0
MOTA	2356 O	SER B 612	30.10	N
ATOM	2357 N	TYR B 613	30.503	C
ATOM	2358 CA	TYR B 613	30.130 20.00.	č
MOTA	2359 CB	TYR B 613	30.302 23.00	č
ATOM	2360 CG	TYR B 613	40.472 29.289 -26.447 1.00 33.04	č
ATOM	2361 CD	1 TYR B 613	40.982 29.122 -27.730 1.00 32.00	č
ATOM		1 TYR B 613	42.347 29.138 -27.958 1.00 31.02	č
		2 TYR B 613	41.375 29.460 -25.397 1.00 32.42	
ATOM ATOM	2364 CE		42 737 29 477 -25 615 1.00 31 10	C
	2365 CZ		43.217 29.328 -26.890 1.00 31.07	C
ATOM			44.568 29.475 -27.077 1.00 30.85	0
ATOM		TYR B 613	39.025 26.864 -26.423 1.00 43.32	C
MOTA		TYR B 613	39.742 26.412 -27.312 1.00 45.29	0
ATOM	2368 O	ARG B 614	38.911 26.290 -25.240 1.00 45.97	N
ATOM	2369 N		39.683 25.119 -24.914 1.00 50.02	С
MOTA	2370 CA		39.932 25.104 -23.404 1.00 53.08	С
MOTA	2371 CB		41.372 24.854 -22.983 1.00 59.25	С
ATOM	2372 CG		41.420 24.331 -21.539 1.00 63.24	С
ATOM	2373 CD		42.753 24.353 -20.937 1.00 66.86	N
MOTA	2374 NE		42.133	С
ATOM	2375 CZ			N
ATOM		11 ARG B 614	10 110 1 00 60 00	N
ATOM	2377 NH	12 ARG B 614	77.247	С
ATOM	2378 C	ARG B 614	30.500 25.00	0
ATOM	2379 0	ARG B 614		N
ATOM	2380 N	GLN B 615	31.013	С
ATOM	2381 CA		30.30 E7 02	С
ATOM	2382 CE		33.404 22.50	C
MOTA	2383 CG		25 472 1 00 63 02	Č
ATOM	2384 CI		34,431	Ö
ATOM	2385 OF	E1 GLN B 615	25.051 1 00 63 10	N
ATOM		22 GLN B 615		Ċ
ATOM	2387 C	GLN B 615	36.889 22.446 -27.359 1.00 59.23	ō
ATOM	2388 0	GLN B 615	36.807 21.286 -27.766 1.00 59.54	N
ATOM	2389 N	SER B 616	36.960 23.487 -28.176 1.00 61.23	Ĉ
ATOM	2390 CZ	A SER B 616	36.952 23.296 -29.619 1.00 63.74	č
ATOM	2391 CI		35.728 22.466 -30.043 1.00 63.81	ŏ
ATOM	2392 00	44.4	35.422 22.621 -31.427 1.00 62.76	č
	2393 C	SER B 616	36.946 24.585 -30.410 1.00 65.75	
ATOM ATOM	2394 0		36 623 25 653 -29 888 1.00 67.02	0
	2395 N	SER B 617	37.331 24.478 -31.677 1.00 67.32	N
MOTA	2396 C		37.278 25.619 -32.576 1.00 68.94	C
MOTA			38 232 25 439 -33 772 1.00 68.50	C
ATOM			39.600 25.528 -33.395 1.00 66.68	0
ATOM			35.821 25.546 -33.049 1.00 69.90	c
MOTA	2399 C	617	34.884 25.774 -32.281 1.00 70.84	0
ATOM	2400 O		35 636 25 188 -34 310 1.00 70 39	N
ATOM	2401 N	MIM D 619	34 306 25.043 -34.901 1.00 71.63	Ç
ATOM	2402 C		33 834 23.607 -34.724 1.00 71.90	С
MOTA	2403 C	- 640	33.184 25.989 -34.462 1.00 71.47	С
MOTA	2404 C		32.023 25.708 -34.735 1.00 72.45	0
MOTA	2405 0	ALA B 618	22.023	N
MOTA	2406 N	ASN B 619	33.303	. C
MOTA	2407 C		32.303	· C
MOTA	2408 · C	B ASN B 619	31.00	C
MOTA	2409 C	G ASN B 619	32.00	0
MOTA	2410 0	D1 ASN B 619	32.302 35.455 1 00 60 22	N
MOTA	2411 N	D2 ASN B 619	33.030 23.030 100 60 11	Ĉ
ATOM	2412 C	ASN B 619		ŏ
ATOM	2413 0	ASN B 619	30.200	N
ATOM	2414 N	LEU B 620	31.772	č
ATOM		A LEU B 620	30.022	č
ATOM		B LEU B 620	31.174 24.836 -30.204 1.00 66.38	c
MOTA	2417 C	G LEU B 620	31.505 24.056 -31.481 1.00 67.14	c
MOTA	2418 C	D1 LEU B 620	31.846 22.610 -31.103 1.00 66.33	U
AION	2.110			

					24 274 22 466	1.00 66.65		С
ATOM	2419	CD2	LEU B 620	30.339	24.114 -32.466	1.00 64.65		č
ATOM	2420	C :	LEU B 620	30.815	26.997 -29.019	1.00 64.79		ō
ATOM	2421	0	LEU B 620	31.853	27.418 -28.520			N
ATOM	2422	N	LEU B 621	29.632	27.109 -28.423	1.00 63.37		c
ATOM	2423	CA	LEU B 621	29.466	27.728 -27.114	1.00 60.84		č
ATOM	2424		LEU B 621	28.170	28.528 -27.072	1.00 61.48		č
ATOM	2425		LEU B 621	28.302	30.045 -27.187	1.00 62.73		č
	2426		LEU B 621	26.940	30.653 -27.554	1.00 62.39		
ATOM	2427		LEU B 621	28.853	30.606 -25.861	1.00 62.81		Ç
ATOM			LEU B 621	29.428	26.621 -26.077	1.00 60.05		C
ATOM	2428		LEU B 621	28.446	25.885 -25.972	1.00 61.14		0
MOTA	2429			30.502	26.515 -25.308	1.00 57.89		N
ATOM	2430		CYS B 622		25.484 -24.307	1.00 55.91		С
ATOM	2431		CYS B 622	30.615	24.991 -24.278	1.00 55.21		С
MOTA	2432		CYS B 622	32.061	23.490 -23.330	1.00 59.84		S
ATOM	2433		CYS B 622	32.310		1.00 54.60		С
MOTA	2434		CYS B 622	30.168	25.950 -22.924	1.00 55.23		ā
MOTA	2435	0	CYS B 622	30.986	26.306 -22.074			N
ATOM	2436	N	PHE B 623	28.859	25.962 -22.705	1.00 52.41		c
ATOM	2437	CA	PHE B 623	28.324	26.370 -21.412	1.00 50.96		č
ATOM	2438		PHE B 623	26.794	26.413 -21.468	1.00 48.60		C
ATOM	2439		PHE B 623	26.245	27.559 -22.274	1.00 47.82		
	2440		PHE B 623	26.313	28.861 -21.790	1.00 48.14		C
MOTA	2441		PHE B 623	25.657	27.339 -23.512	1.00 47.35		C
ATOM			PHE B 623	25.803	29.925 -22.523	1.00 48.59		С
ATOM	2442		PHE B 623	25.146	28.399 -24.250	1.00 48.22		С
ATOM	2443			25.220	29.695 -23.752	1.00 48.85		С
MOTA	2444		PHE B 623	28.776	25.375 -20.340	1.00 50.71		С
ATOM	2445	-	PHE B 623		25.741 -19.185	1.00 49.62		0
ATOM	2446		PHE B 623	29.005	24.115 -20.752	1.00 52.33		N
ATOM	2447		ALA B 624	28.912		1.00 51.20		С
ATOM	2448	CA	ALA B 624	29.323	23.016 -19.880	1.00 51.47		Ċ
ATOM	2449	CB	ALA B 624	28.228	22.730 -18.851	1.00 49.80		c
ATOM	2450	С	ALA B 624	29.580	21.777 -20.737			ŏ
ATOM	2451	0	ALA B 624	29.115	21.673 -21.867	1.00 47.43		N
MOTA	2452	N	PRO B 625	30.335	20.819 -20.200	1.00 50.48		C
ATOM	2453	CD	PRO B 625	31.037	20.861 -18.910	1.00 50.29		
ATOM	2454	CA	PRO B 625	30.658	19.584 -20.913	1.00 51.47		C
	2455	CB	PRO B 625	31.412	18.783 -19.864	1.00 50.00		C
ATOM	2456	CG	PRO B 625	32.112	19.834 ~19.124	1.00 50.29		C
ATOM			PRO B 625	29.425	18.853 -21.414	1.00 52.60		С
ATOM	2457	C	PRO B 625	29.465	18.163 -22.433	1.00 52.64		0
ATOM	2458	0	ASP B 626	28.321		1.00 54.48		N
ATOM	2459	N		27.102		1.00 55.68		С
ATOM	2460	CA	ASP B 626	26.419	17.696 -19.906	1.00 56.09		С
ATOM	2461	CB	ASP B 626		18.724 -18.973	1.00 57.83		С
ATOM	2462	CG	ASP B 626	25.827	40 400	1.00 59.45		0
ATOM	2463		ASP B 626	26.589		1.00 57.98		0
MOTA	2464	OD2	ASP B 626	24.606		1.00 55.93		C
MOTA	2465	С	ASP B 626	26.116		1.00 57.23		ō
ATOM	2466	0	ASP B 626	25.035		1.00 56.56		N
ATOM	2467	N	LEU B 627	26.469				c
ATOM	2468	CA	LEU B 627	25.577	21.537 -22.514	1.00 56.29		c
ATOM	2469	CB	LEU B 627	25.000	22.482 -21.457	1.00 58.21		c
ATOM	2470	CG	LEU B 627	23.984		1.00 60.16		c
ATOM	2471		LEU B 627	22.827		1.00 61.47		c
ATOM	2472		LEU B 627	23.447		1.00 60.93		
ATOM	2473	C	LEU B 627	26.325	22.373 -23.519	1.00 55.80		C
ATOM	2474	ŏ	LEU B 627	26.486	23.576 -23.327	1.00 53.30		0
	2475	N	ILE B 628	26.777		1.00 57.13		N
MOTA	2476	CA	ILE B 628	27.529		1.00 57.73		С
MOTA			ILE B 628	28.703		1.00 57.39		С
ATOM	2477	CB	ILE B 628	29.412		1.00 56.52		С
ATOM	2478	002	ILE B 628			1.00 57.78		С
ATOM	2479	CGT	ILE B 628	30.802		1.00 58.08		С
ATOM	2480		TTE D 020	26.613		1.00 58.59		С
MOTA	2481	c	ILE B 628			1.00 58.15		0
MOTA	2482	0	ILE B 628					N
MOTA	2483	N	ILE B 629					С
ATOM	2484	CA	ILE B 629	25.734				Ċ
ATOM	2485	CB	ILE B 629	25.053	23.111 -20.031			Č
MOTA	2486	CG2	ILE B 629	24.305				č
ATOM	2487	CG1	ILE B 629	24.096	25.566 -26.858	1.00 02.47	ويرا	č
ATOM	2488	CD1	ILE B 629	23.279	26.817 -26.600	UU EE VE	1275	č
ATOM	2489	С	ILE B 629	26.593	24.512 -29.581	. I.UU 00.40		ō
ATOM	2490	0	ILE B 629			1.00 66.27		И
ATOM	2491	N	ASN B 630		24.157 -30.716			
ATOM	2492	CA	ASN B 630		24.203 -32.007			C
ATOM	2493	CB	ASN B 630		22.846 -32.740	1.00 72.18		C
	2494	CG	ASN B 630		22.209 -32.559	1.00 73.27		C
ATOM	2495	001	ASN B 630			1.00 75.70		0
ATOM		NIDS	ASN B 630	24.382		1.00 72.16		N
ATOM	2496		ASN B 630	26.086				C
MOTA	2497	C	ASN B 630	24.988				0
ATOM	2498	0	GLU B 631		00/			N
MOTA	2499	N	G710 D 031	0.044				

						24 757	1.00 80.23	С
ATOM	2500	CA	GLU B	631	26.420	26.839 -34.757	1.00 81.87	č
ATOM	2501	CB	GLU B	631	27.424	27.008 -35.896		č
MOTA	2502	CG	GLU B	631	27.153	28.205 -36.803	1.00 83.99	
ATOM	2503		GLU B		28.319	29.190 -36.823	1.00 86.23	c
	2504		GLU B		28.272	30.172 -37.599	1.00 86.92	0
MOTA					29.286	28.980 -36.056	1.00 86.94	0
MOTA	2505		GLU B			26.454 -35.347	1.00 80.90	С
MOTA	2506		GLU B		25.086	27.300 -35.586	1.00 80.99	0
ATOM	2507		GLU B		24.232	27.300 -35.500	1.00 82.27	N
ATOM	2508	N	GLN B	632	24.940	25.160 -35.602		č
ATOM	2509	CA	GLN B	632	23.712	24.597 -36.146	1.00 83.78	č
ATOM	2510		GLN B		23.855	23.080 -36.311	1.00 85.10	
	2511		GLN B		22.731	22.445 -37.118	1.00 86.62	C
MOTA	2512		GLN B		22.814	22.810 -38.596	1.00 86.39	C
MOTA			GLN B		22.735	23.982 -38.967	1.00 85.70	0
MOTA	2513				22.973	21.800 -39.448	1.00 86.18	N
MOTA	2514		GLN B			24.866 -35.164	1.00 83.45	С
MOTA	2515	-	GLN B		22.577		1.00 82.95	0
ATOM	2516		GLN B		21.692	25.691 -35.394	1.00 83.58	И
ATOM	2517	N	ARG B	633	22.628	24.138 -34.061		ĉ
ATOM	2518	CA	ARG B	633	21.637	24.234 -33.013	1.00 84.22	č
ATOM	2519		ARG B	633	21.873	23.087 -32.022	1.00 84.51	
ATOM	2520	CG	ARG B		20.607	22.476 -31.454	1.00 84.22	С
		CD	ARG B		20.275	23.057 -30.096	1.00 82.62	С
MOTA	2521				21.169	22.546 -29.059		N
ATOM	2522	NE	ARG B		21.271	21.262 -28.725		С
MOTA	2523	CZ	ARG B			20.351 -29.350		N
MOTA	2524		ARG B		20.535			N
MOTA	2525	NH2	ARG B		22.096	20.884 -27.755		Ċ
ATOM	2526	С	ARG B	633	21.693	25.591 -32.306		ŏ
MOTA	2527	0	ARG B	633	21.086	25.779 -31.259	1.00 83.14	N
ATOM	2528	N	MET B	634	22.415	26.539 -32.892	1.00 84.67	
ATOM	2529	CA	MET B		22.543	27.869 -32.312	1.00 85.93	c
	2530	CB	MET B		23.946	28.414 -32.556	1.00 86.70	C
MOTA		CG	MET B		24.508	29.256 -31.426		С
MOTA	2531		MET B		26.306	29.526 -31.562		s
MOTA	2532	SD				28.268 -30.401		С
MOTA	2533	CE	MET B		26.942	28.752 -33.006		С
MOTA	2534	С	MET B		21.537			Ó
ATOM	2535	0	MET B		21.496	29.962 -32.776		N
ATOM	2536	N	THR E	635	20.756	28.117 -33.882		Ċ
ATOM	2537	CA	THR B	635	19.711	28.763 -34.679		č
MOTA	2538	CB	THR E	635	19.835	28.414 -36.201		
	2539		THR E		19.562	27.022 -36.415	1.00 87.24	0
MOTA	2540		THR E		21.226	28.716 -36.713	1.00 87.32	С
ATOM.			THR E		18.342	28.286 -34.193		С
ATOM	2541	C			17.351	29.009 -34.303		0
MOTA	2542	0	THR E			27.062 -33.661		N
ATOM	2543	N	TEG E		18.306	26.456 -33.142		С
ATOM	2544	CA	TEA E		17.076			C
MOTA	2545	CB	LEU E		17.362	25.038 -32.601		Č
MOTA	2546	CG	LEO E	636	16.310	24.416 -31.658		č
ATOM	2547	CD1	LEU E	636	15.028	24.050 -32.420		
ATOM	2548	CD2	LEU F	636	16.914	23.190 -30.977	1.00 89.01	C
ATOM	2549	C	LEU F		16.417	27.300 -32.039	1.00 89.54	C
		ŏ	LEU E		15.228	27.634 -32.123	1.00 89.49	0
ATOM	2550		PRO E		17.183	27.648 -30.98	1.00 89.74	N
MOTA	2551	N			18.579	27.249 -30.71		С
MOTA	2552	CD	PRO E			28.451 -29.878	· · · · · · · · · · · · · · · · · · ·	С
MOTA	2553	CA	PRO E		16.654	28.633 -28.97		С
ATOM	2554	СВ	PRO E		17.885			Ċ
MOTA	2555	CG	PRO E	3 637	18.670	27.379 -29.21		č
ATOM	2556	С	PRO E	3 637	16.034	29.794 -30.30	1.00 88.13	
ATOM	2557	0	PRO E		15.636	29.991 -31.45	1.00 87.51	O N
ATOM	2558	N		3 638	15.950	30.714 -29.35	1.00 86.70	N
ATOM	2559	CA	ASP I		15.388	32.019 -29.63	1.00 85.33	C
ATOM	2560	CB	ASP I		14.621	32.516 -28.40	7 1.00 86.50	č
		CG		638	13.768	33.725 -28.70	1.00 87.76	С
ATOM	2561		ASP I		13.275	34.356 -27.73	3 1.00 88.01	0
ATOM	2562				13.586	34.037 -29.89		0
ATOM	2563		ASP I			32.960 -29.94		С
MOTA	2564	С		B 638	16.541			ō
ATOM	2565	0		B 638	16.493	33.716 -30.91		N
MOTA	2566	N		B 639	17.590	32.889 -29.13	3 1.00 82.82	· c
MOTA	2567	CA	MET I	B 639	18.754	33.740 -29.32	3 1.00 81.84	
ATOM	2568	CB	MET 1	B 639	19.288	34.203 -27.96		c
ATOM	2569	CG		в 639	19.161	33.170 -26.85		, с
		SD		B 639	18.358	33.785 -25.34	1.00 85.08	: · S
MOTA	2570	CE		B 639	16.698	33.109 -25.55	3 1.00 83.99	С
ATOM	2571			B 639	19.873	33.127 -30.17	5 1.00 79.75	С
ATOM	2572	C				31.915 -30.18		0
MOTA	2573	0		B 639	20.101	34.008 -30.91	2 1.00 78.00	N
MOTA	2574	N		B 640	20.541	22.000 -30.31		C
MOTA	2575	CA		B 640	21.639	33.682 -31.81		č
ATOM	2576	ÇВ		B 640	21.105	33.268 -33.18	7 1.00 78.56	c
ATOM	2577	CG		B 640	21.680	34.098 -34.33	2 1.00 79.29	
MOTA	2578		TYR		22.759	33.637 -35.07	9 1.00 80.63	C
			TYR		23.363	34.433 -36.07	0 1.00 79.64	C
ATOM	2579		TYR		21.225	35.397 -34.58	0 1.00 79.41	С
ATOM	2580	CDZ	TIL.	5 040	21.22			

										•	
ATOM	2581	CE2	TYR	В	640		36.211	-35.554		79.02 79.29	C
MOTA	2582	CZ	TYR		640			-36.284 -37.222		77.50	ŏ
ATOM	2583	OH	TYR		640 640	23.568 22.352	35.025	-31.935		73.91	Ċ
ATOM ATOM	2584 2585	С 0	TYR TYR			23.552	35.095	-32.138		72.84	0
ATOM	2586		ASP		641	21.563	36.092	-31.839		72.93	N C
ATOM	2587	CA	ASP		641		37.472	-31.905 -32.152		72.55 72.54	č
MOTA	2588	CB	ASP		641			-32.152 -31.458		73.33	Ċ
ATOM	2589 2590	CG	ASP ASP		641 641	19.011	36.863	-31.899	1.00	73.11	0
ATOM ATOM	2591		ASP		641	19.090	38.506	-30.469		73.21	0
ATOM	2592	C	ASP		641			-30.563		72.07 73.31	C
ATOM	2593	0	ASP					-30.348 -29.664		71.05	n
ATOM	2594	N	GLN GLN		642			-28.349		69.11	С
ATOM ATOM	2595 2596	CA CB	GLN		642	22.350	37.000	-27.254		69.41	C
ATOM	2597	CG	GLN		642			-26.151		70.53	C
ATOM	2598	CD	GLN					-26.658		71.33 71.82	ŏ
ATOM	2599	OE1	GLN		642 642			-27.430 -26.208		69.44	N
MOTA MOTA	2600 2601	NE2 C	GLN GLN		642	24.458	35.964	-28.145		67.96	C
ATOM	2602	ŏ	GLN		642			-27.257		66.03	O N
ATOM	2603	N	CYS		643		34.935	-28.973 -28.916		68.25 67.79	č
ATOM	2604	CA	CYS		643 643			-29.591		67.18	С
ATOM ATOM	2605 2606	CB SG	CYS		643	23.807	31.400	-28.506		65.51	s
ATOM	2607	c	CYS		643			-29.622		67.40	C
ATOM	2608	0	CYS		643			-29.206 -30.691		67.84 66.34	N
ATOM	2609	N	LYS		644	26.473 27.651		-31.405		66.41	С
ATOM ATOM	2610 2611	CA CB	LYS		644 644	27.273		-32.794	1.00	67.80	C
ATOM	2612	CG	LYS		644	26.132	36.990	-32.792		70.43	C C
ATOM	2613	CD	LYS	В	644	25.979		-34.151		71.28 71.67	Č
MOTA	2614	CE	LYS		644	24.708 24.599		-34.214 -33.060		71.57	Ŋ
ATOM ATOM	2615 2616	NZ C	LYS		644	28.348		-30.596	1.00	65.60	C
ATOM	2617	ŏ	LYS			29.525	36.815	-30.809		66.30	N O
MOTA	2618	N	HIS		645	27.618		-29.663 -28.829	1.00	63.91 61.71	Č
MOTA	2619	CA	HIS		645 645	28.202 27.128		-28.100	1.00	62.42	C
ATOM ATOM	2620 2621	CB CG	HIS		645	26.749	40.261	-28.800	1.00	63.26	C
ATOM	2622		HIS			27.289	41.505	-28.748	1.00		C N
MOTA	2623		HIS			25.703	40.338	-29.696 -30.164		62.83 62.89	Č
ATOM	2624		HIS HIS			25.617 26.569		-29.604		62.40	N
ATOM ATOM	2625 2626	C			645	29.071	37.477	-27.808		59.81	C
ATOM	2627	0			645	30.061		-27.341		60.42 57.50	O N
ATOM	2628	N			646	28.680		-27.461 -26.499		55.41	Ċ
ATOM	2629	CA CB	MET	В	646 646	29.420 28.482		-25.781		53.06	С
ATOM ATOM	2630 2631	CG	MET	В	646	27.734	35.061	-24.590		52.51	C
ATOM	2632	SD	MET		646	26.119	34.273	-24.224		52.53 49.56	S C
ATOM	2633	CE	MET		646	26.470 30.516	34 668	-24.391 -27.214		54.27	č
MOTA	2634 2635	C O	MET MET		646 646	31.552		-26.631		53.80	0
ATOM ATOM	2636	N			647	30.275	34.349	-28.484		53.77	N C
ATOM	2637	CA			647	31.229	33.597	-29.296		53.22 53.51	č
MOTA	2638	CB			647	30.530 31.186	31.889	-30.559 -31.230		56.18	C
ATOM ATOM	2639 2640	CG CD1	LEU		647 647	31.594	30.831	-30.166	1.00	54.64	C
ATOM	2641		LEU			30.217	31.321	-32.287		56.03	C C
ATOM	2642	С	LEU	В	647	32.444		-29.643 -29.972		51.31 50.79	0
ATOM	2643	0			647 648	33.526 32.244	33.972	-29.546		49.08	N
ATOM ATOM	2644 2645	n ca			648	33.290	36.753	-29.821	1.00	46.15	C
ATOM	2646	CB			648	32.739	38.177	-29.628		44.47	C
ATOM	2647	CG			648	33.800		-29.648		44.36 43.69	C
ATOM	2648	CD1			648	34.427 35.445		-30.850 -30.864		41.52	С
ATOM	2649 2650	CE1 CD2	_		648 648	34.211	39.879	-28.467	1.00	40.88	C
ATOM ATOM	2651		TYR	В	648	35.216	40.844	-28.469	1.00	41.85	. C
ATOM	2652	CZ	TYR	В	648	35.831	41.217	-29.665 -29.643		42.75 44.51	0
MOTA	2653	OH			648	36.846 34.486	36,539	-28.885		45.20	č
ATOM	2654 2655	C O			648 648	35.639	36.476	-29.322	1.00	45.88	0
ATOM ATOM	2656	N			649	34.184	36.427	-27.595		42.52	N C
ATOM	2657	CA			649	35.186	36.254	-26.557 -25.165		39.84 39.62	c
ATOM	2658	CB			649	34.515 35.572	35.078	-25.165 -24.063		37.10	č
MOTA	2659 2660				649 649	33.574	37.257	-24.895		36.46	С
MOTA MOTA	2661	C			649	36.093	35.063	-26.832	1.00	39.53	С

ATOM	2662	0	VAL E	3	649	37.309		-26.885	1.00 38.15	0
ATOM	2663	N	SER E			35.499		-27.023	1.00 39.42	C N
ATOM	2664	CA	SER E			36.258		-27.283 -27.358	1.00 39.57 1.00 41.64	č
ATOM	2665	CB	SER E			35.323 34.521		-28.529	1.00 45.37	0
ATOM ATOM	2666 2667	OG C	SER E			37.031		-28.586	1.00 37.84	C
ATOM	2668	ŏ	SER E			38.188		-28.689	1.00 35.43	0
ATOM	2669	N	SER E			36.377		-29.600	1.00 38.33 1.00 40.70	C N
MOTA	2670	CA	SER E			37.045 36.075		-30.867 -31.928	1.00 38.67	č
ATOM	2671 2672	CB OG	SER E			35.935		-31.865	1.00 34.66	0
MOTA MOTA	2673	C	SER I			38.248	34.333	-30.747	1.00 41.37	C
ATOM	2674	ŏ	SER E			39.321		-31.288	1.00 42.71	O N
MOTA	2675	N	GLU E			38.073		-30.017	1.00 41.39 1.00 42.69	Č
MOTA	2676	CA	GLU H			39.145 38.577		-29.867 -29.244	1.00 45.39	č
ATOM ATOM	2677 2678	CB CG	GLU H		652 652	39.510		-29.240	1.00 49.81	C
ATOM	2679	CD	GLU I			39.373		-30.468	1.00 51.55	C O
ATOM	2680		GLU F			39.472		-31.582	1.00 52.18 1.00 53.67	Ö
ATOM	2681		GLU I			39.177 40.221		-30.306 -28.978	1.00 42.43	č
ATOM	2682 2683	C O	GLU I			41.402		-29.053	1.00 41.00	0
MOTA MOTA	2684	N	LEU I			39.785	34.821	-28.153	1.00 43.94	N
MOTA	2685	CA	LEU I	В	653	40.657		-27.212	1.00 43.80	C
MOTA	2686	CB	LEU I			39.849		-26.082	1.00 43.71 1.00 43.70	č
MOTA	2687	CG	LEU I			40.356 40.880		-24.633 -24.342	1.00 43.61	С
ATOM ATOM	2688 2689		LEU I			39.229	33.336	-23.687	1.00 42.40	C
ATOM	2690	c	LEU I			41.431		-27.971	1.00 45.28	C O
ATOM	2691	0	LEU !	_	653	42.364		-27.439	1.00 46.52 1.00 47.62	Ŋ
ATOM	2692	N	HIS I			41.043 41.728		-29.223 -30.087	1.00 48.56	Ċ
ATOM ATOM	2693 2694	CA CB	HIS I			40.722		-30.869	1.00 50.40	С
ATOM	2695	CG	HIS		654	41.341		-31.858	1.00 54.61	C
ATOM	2696		HIS !			41.106		-33.179	1.00 55.49 1.00 56.90	C N
MOTA	2697		HIS		654	42.301 42.616		-31.510 -32.573	1.00 56.42	č
ATOM	2698		HIS I			41.905		-33.597	1.00 56.34	N
ATOM ATOM	2699 2700	C	HIS			42.620		-31.043	1.00 48.69	C
ATOM	2701	ŏ	HIS			43.753		-31.290	1.00 50.44	O N
ATOM	2702	N	ARG			42.118		-31.589 -32.496	1.00 49.01 1.00 51.05	C
ATOM	2703	CA	ARG I			42.916 42.086		-33.003	1.00 50.47	Ċ
ATOM ATOM	2704 2705	CB CG	ARG			42.804		-33.951	1.00 51.60	C
ATOM	2706	CD	ARG			41.968		-34.182	1.00 54.12	C N
ATOM	2707	NE	ARG			41.767		-32.927	1.00 55.67 1.00 55.37	C
ATOM	2708	CZ	ARG			42.714 43.954		-32.274 -32.742	1.00 51.57	N
ATOM	2709 2710		ARG A			42.417		-31.129	1.00 54.98	Ŋ
MOTA MOTA	2711	C	ARG			44.121		-31.770	1.00 52.14	C
ATOM	2712	0	ARG			44.893		-32.361	1.00 54.32 1.00 52.33	N O
MOTA	2713	N	LEU			44.267		-30.490 -29.670	1.00 52.33	č
MOTA	2714 2715	CA CB	LEU		656	45.348 44.778	36.420	-28.631	1.00 51.78	С
ATOM ATOM	2716	CG	LEU			45.434	37.801	-28.600	1.00 52.87	C
ATOM	2717	CD1	LEU	В	656	45.267	38.466	-29.952	1.00 52.07	C
MOTA	2718		LEU			44.810	38.656	-27.515	1.00 54.04 1.00 50.96	c
ATOM	2719	C	LEU LEU			46.105 47.149	34.547	-28.964 -28.358	1.00 48.30	ō
ATOM ATOM	2720 2721	O N	GLN			45.554	33.139	-29.039	1.00 51.46	N
ATOM	2722	CA	GLN			46.155		-28.427	1.00 51.98	C
ATOM	2723	CB	GLN			47.360	31.505	-29.256	1.00 53.79 1.00 56.75	C
MOTA	2724	CG	GLN			47.029 45.986		-30.689 -30.740	1.00 59.34	č
ATOM	2725 2726	CD OE1	GLN GLN			45.985	29.077	-29.892	1.00 62.61	0
MOTA MOTA	2727		GLN			45.101	30.012	-31.731	1.00 59.21	N
MOTA	2728	С	GLN	В	657	46.604		-26.991	1.00 51.01	C 0
MOTA	2729	0	GLN			47.753		-26.651 -26.158	1.00 50.48 1.00 50.02	ท
ATOM	2730	N	VAL			45.697 46.007		-26.158 -24.769	1.00 48.47	č
ATOM	2731 2732	CA CB	VAL VAL		658	44.820	33.772	-24.097	1.00 48.02	. С
MOTA MOTA	2733		VAL			45.159	34.137	-22.677	1.00 48.35	C
MOTA	2734	CG2	VAL	В	658	44.475	35.017	-24.880	1.00 48.77	C
MOTA	2735	C	VAL			46.344	31.806	-23.950 -24.156	1.00 47.82 1.00 47.54	0
ATOM	2736 2737	И О	VAL SER			45.787 47.270		-23.017	1.00 46.58	N
ATOM ATOM	2737 2738	CA	SER			47.663	30.861	-22.167	1.00 45.81	C
ATOM	2739	CB	SER	В	659	49.128	31.010	-21.779	1.00 44.36	C 0
ATOM	2740	OG	SER			49.294	32.015	-20.794 -20.900	1.00 46.05 1.00 45.03	C
ATOM	2741	C	SER			46.792 46.222	31.808	-20.477	1.00 46.89	ō
MOTA	2742	0	SER	D	029	40.222	52.000			

								1.00 4	10 26	N
MOTA	2743		TYR B		46.697	29.642 29.515		1.00		C
MOTA	2744		TYR B		45.909 45.987	28.073		1.00		С
ATOM	2745		TYR B		45.119	27.782		1.00	34.25	C
ATOM	2746		TYR B		43.737	27.682	-17.537	1.00		C
MOTA	2747 2748			660	42.928	27.445	-16.437	1.00		C
MOTA MOTA	2749			660	45.671	27.641	-16.143	1.00		Č
MOTA	2750		TYR B	660	44.884	27.408	-15.049	1.00		č
ATOM	2751	CZ	TYR B		43.522	27.301		1.00		0
ATOM	2752	OH	TYR B		42.800	20.327	-14.082 -17.988	1.00		С
MOTA	2753	C	TYR B		46.436 45.702		-17.103	1.00		0
MOTA	2754	0	TYR B GLU B		47.720	30.779	-18.067	1.00		N
ATOM	2755	N CA	GLU B		48.348	31.627	-17.065	1.00		C
ATOM	2756 2757	CB	GLU B		49.869	31.532	-17.211	1.00		C
ATOM ATOM	2758	ÇG	GLU B		50.673	31.573	-15.914	1.00		č
ATOM	2759	CD	GLU B		51.123	30.188	-15.451	1.00		ŏ
ATOM	2760		GLU B		51.612	29.401	-16.283 -14.248	1.00		0
ATOM	2761		GLU B		51.005 47.891		-17.274	1.00		С
ATOM	2762	C	GLU B		47.596	33.793	-16.319	1.00		0
MOTA	2763	0	GLU B		47.830		-18.549		37.34	N
ATOM	2764 2765	N CA	GLU B		47.417	34.770	-18.926		35.02	C C
ATOM ATOM	2766	CB	GLU B		47.697		-20.405		34.57	c
ATOM	2767	CG	GLU B		49.172		-20.751		34.64 33.70	č
ATOM	2768	CD	GLU B		49.419		-22.228		35.83	ō
ATOM	2769		GLU B		48.596		-23.063 -22.565		32.73	0
MOTA	2770	OE2			50.443 45.948		-18.631		33.94	С
ATOM	2771	C	GLU B		45.572	35.954	-18.022	1.00	32.84	0
ATOM	2772	0	GLU B TYR B		45.125	34.026	-19.086	1.00	33.57	Ŋ
ATOM	2773 2774	N CA	TYR B		43.689	34.046	-18.837		33.61	C
ATOM ATOM	2775	ÇB	TYR B		43.103		-19.275		34.57	Ċ
ATOM	2776	ĊĠ	TYR B		41.748	32.449	-18.699		36.58 36.17	č
ATOM	2777		TYR B		40.632	33.111	-19.178		37.11	Ċ
ATOM	2778			663	39.362		-18.678 -17.691		38.25	С
ATOM	2779			663	41.574 40.306		-17.177		39.81	С
ATOM	2780		TYR B	663	39.202	31.896	-17.684	1.00	39.90	C
ATOM	2781	CZ OH		663	37.941	31.605	-17.192		42.52	0
ATOM	2782 2783	C		663	43.359	34.251	-17.344		35.30	C O
ATOM ATOM	2784	ō		663	42.456	35.018	-16.999		35.91 34.37	n
ATOM	2785	N	LEU B	664	44.071		-16.457		33.71	C
ATOM	2786	CA	LEU B	664	43.771		-15.044 -14.204		35.67	С
ATOM	2787	CB	LEU B	664	44.586		-14.402		37.86	C
MOTA	2788	CG	LEU B	664	44.274 44.993		-13.354	1.00	40.46	C
MOTA	2789		LEU B	664 664	42.783		-14.272		38.40	C
MOTA	2790 2791	CD2 C	LEU B		44.009	35.072	-14.547		33.05	C O
MOTA MOTA	2792	ŏ	LEU B	664	43.243		-13.736		31.13	Ŋ
ATOM	2793	N	CYS B	665	45.066		-15.037		35.21 36.82	Ċ
ATOM	2794	CA	CYS B		45.376		-14.608 -15.019		38.91	С
ATOM	2795	CB	CYS B		46.803 48.089		-14.119		43.16	S
MOTA	2796	SG	CYS B		44.374		-15.223		35.36	C
ATOM	2797	C O	CYS B		43.915		-14.575		36.18	0
MOTA	2798 2799	N	MET B		44.023	37.764	-16.473		33.38	N C
ATOM ATOM	2800	CA	MET B		43.065	38.601	-17.159		34.51	C
ATOM	2801	CB	MET B	666	42.874		-18.603	1.00	34.66 36.03	Č
ATOM	2802	CG	MET B		43.757	38.000	-19.595 -20.981		39.44	s
ATOM	2803	SD	MET B		44.235 43.086		-22.256		36.37	С
ATOM	2804	CE	MET B		41.721		-16.432	1.00	34.97	C
ATOM	2805	С 0	MET B		41.159	39.732	-16.207		35.27	0
MOTA	2806 2807	N	LYS B		41.231	37.477	-16.042		33.02	N C
MOTA MOTA	2808	CA	LYS B		39.961		-15.365	1.00	30.40	Č
ATOM	2809		LYS E		39.585		-15.189		26.85 25.26	č
ATOM	2810		LYS E		38:188		3 -14.623 3 -15.053		24.73	С
MOTA	2811		LYS E		37.557		1 -14.592		28.75	С
MOTA	2812		LYS E		38.358 38.543		2 -13.109		32.27	N
MOTA	2813		LYS E		40.020		-14.035	1.00	32.34	C
ATOM	2814		LYS E		39.021	38.61	5 -13.568	1.00	32.45	0
MOTA	2815 2816		THR E		41.192	38.16	3 -13.428		34.00	N C
MOTA MOTA	2817				41.271	38.85	5 -12.154		37.50	C
ATOM	2818	CB	THR E	3 668	42.598		B -11.442	1.00	39.47	ŏ
ATOM	2819	OG	1 THR F	3 668	42.790		7 -11.438 1 -10.007		38.66	č
ATOM	2820	CG	2 THR E	3 668	42.586		9 -12.396		39.18	С
ATOM	2821		THR I		41.168 40.619	41.12	1 -11.584	1.00	39.29	0
MOTA	2822		THR I		41.706		5 -13.526		40.29	N
MOTA	2823	N	71 U 21		11.,00					

								1 00 40 11	С
л ПОМ	2824	CA	LEU B	669	41.660	42.213	-13.849	1.00 40.11	
MOTA			LEU B		42.588	42.548	-15.016	1.00 36.75	С
ATOM	2825					42.487	-14.680	1.00 35.03	С
MOTA	2826		LEU B		44.087	42.407	15 032	1.00 33.77	С
ATOM	2827	CD1	LEU B	669	44.905	42.757	-13.932		č
ATOM	2828		LEU B		44.433	43.490	-13.578	1.00 31.17	
			LEU B		40.268	42.708	-14.173	1.00 41.21	С
MOTA	2829	C				43.911	-14.082	1.00 41.41	0
ATOM	2830	0	LEU B		40.021			1.00 43.02	N
MOTA	2831	N	LEU B	670	39.384	41.786	-14.5/3		č
	2832	CA	LEU B	670	37.990	42.077	-14.927	1.00 43.24	
ATOM					37.367	40.939	-15.758	1.00 43.02	С
MOTA	2833	СВ	LEU B			40.799	-17 222	1.00 42.54	С
ATOM	2834	CG	LEU B		37.811			1.00 42.23	С
MOTA	2835	CD1	LEU B	670	37.259		-17.828		č
ATOM	2836	CD2	LEU B	670	37.346	41.998		1.00 41.18	
			LEU B		37.223	42.227	-13.640	1.00 45.86	Ç
MOTA	2837	C			36.261	42.980		1.00 45.76	0
ATOM	2838	0	LEU B			41.495		1.00 50.30	N
MOTA	2839	N	LEU B	671	37.644			1.00 53.42	С
MOTA	2840	CA	LEU B	671	36.995	41.578	-11.319		č
ATOM	2841	CB	LEU B	671	37.411	40.388	-10.453	1.00 52.34	
			LEU B		37.011	40.281	-8.981	1.00 52.06	С
MOTA	2842	CG				40.947	-8.139	1.00 51.65	С
MOTA	2843		LEU E		38.078			1.00 51.52	С
MOTA	2844	CD2	LEU E	671	35.621	40.881	-8.738		č
	2845	C	LEU E		37.399	42.891	-10.658	1.00 55.91	
ATOM			LEU E		36.706	43.395	-9.779	1.00 58.42	0
ATOM	2846	0					-11.094	1.00 57.72	N
MOTA	2847	N	PEO E		38.520		-10.534	1.00 60.64	С
ATOM	2848	ÇA	LEU E	3 672	39.007				Ċ
ATOM	2849	CB	LEU E	672	40.396	44.474	-9.914	1.00 59.13	č
		CG	LEU E		40.509	43.465	-8.760	1.00 58.29	تِ
MOTA	2850				41.968	43.192	-8.448	1.00 56.71	С
MOTA	2851		LEU F				-7.527	1.00 57.39	c
ATOM	2852	CD2	LEU E	3 672	39.807	43.996			Ċ
MOTA	2853	С	LEU E	672	39.077		-11.615	1.00 63.78	
	2854	ō	LEU E		39.993	46.596	-11.626	1.00 65.19	0
MOTA					38.114	45.795	-12.526	1.00 65.98	N
MOTA	2855	N	SER E		38.141		-13.580	1.00 69.27	С
MOTA	2856	CA	SER E					1.00 69.42	С
ATOM	2857	CB	SER E	3 673	37.933		-14.954		ŏ
ATOM	2858	OG	SER E	673	39.131	46.132	-15.721	1.00 69.82	
			SER I		37.088	47.855	-13.373	1.00 72.33	С
ATOM	2859	C					-13.364	1.00 73.41	0
ATOM	2860	0	SER I		37.402	49.030	12 100	1.00 75.19	N
ATOM	2861	N	SER F	B 674	35.839	47.416	-13.198		Ċ
ATOM	2862	CA	SER I	3 674	34.702		-13.009	1.00 76.80	
				B 674	33.370	47.543	-12.901	1.00 75.62	С
ATOM	2863	CB			33.001		-14.112	1.00 72.45	0
ATOM	2864	OG	SER I					1.00 78.39	С
ATOM	2865	С	SER I	B 674	34.869		-11.787		0
ATOM	2866	0	SER I	B 674	34.439	48.908	-10.683	1.00 78.32	
		Ŋ		B 675	35.497	50.389	-12.002	1.00 81.36	N
ATOM	2867				35.718		-10.937	1.00 84.09	С
ATOM	2868	CA		в 675			-10.803	1.00 83.41	С
MOTA	2869	CB	VAL	в 675	37.214				Ċ
MOTA	2870	CG1	VAL	в 675	37.437	52.536	-9.556	1.00 83.08	č
	2871	CG2			38.052	50.448	-10.776	1.00 83.54	
ATOM					34.952	52.631	-11.322	1.00 86.77	С
ATOM	2872	С		B 675			-12.291	1.00 86.70	0
ATOM	2873	0	VAL	B 675	35.313			1.00 89.01	N
ATOM	2874	N	PRO 1	в 676	33.881		-10.574		Č
	2875	CD	PRO		33.445	52.273	-9.341	1.00 89.61	
MOTA					33.049	54.144	-10.830	1.00 90.12	С
MOTA	2876	CA	PRO			54.340	-9.498	1.00 90.27	С
ATOM	2877	ÇВ	PRO 1	B 676	32.322			1.00 90.65	С
ATOM	2878	CG	PRO 1	в 676	32.096	52.930	-9.049		č
ATOM	2879	С		B 676	33.870	55.366	-11.240	1.00 91.53	
_				в 676	34.426	55,404	-12.338	1.00 91.55	0
MOTA	2880	0					-10.359	1.00 92.72	N
ATOM	2881	N		в 677	33.940		-10.624	1.00 93.01	C
MOTA	2882	CA		в 677	34.707	37.304	-10.024		С
ATOM	2883	CB	LYS	в 677	34.321	58.200	-11.978	1.00 92.69	č
	2884	CG		в 677	35.503	58.684	-12.828	1.00 91.56	_
ATOM					36.323		-13.375	1.00 90.47	С
ATOM	2885	CD		В 677			-12.351	1.00 89.38	C
ATOM	2886	CE		в 677	37.296			1.00 88.22	N
ATOM	2887	NZ	LYS	B 677	37.912		-12.851		Ċ
	2888	c		B 677	34.484	58.614	-9.518	1.00 93.62	
ATOM					33.714	59.559	-9.683	1.00 93.74	0
MOTA	2889	0		B 677		58.412	-8.398	1.00 93.58	N
ATOM	2890	N		в 678	35.176			1.00 93.29	, с
ATOM	2891	CA	ASP	в 678	35.102	59.289	-7.229		
	2892	CB	ASP		33.654	59.377	-6.722	1.00 93.58	C
ATOM					33.450	60.485	-5.704	1.00 93.66	С
ATOM ·		CG		В 678		60.553	-4.737	1.00 93.44	ο.
ATOM	2894		. ASP		34.244			1.00 93.48	Ö
ATOM	2895		ASP		32.495	61.282	-5.873		
	2896	C		B 678	35.997	58.686	-6.139	1.00 92.73	C
MOTA					36.587	59.402	-5.324	1.00 92.55	0
ATOM	2897			B 678		57.356	-6.150	1.00 91.48	N
ATOM	2898	N		B 679	36.081			1.00 89.73	С
MOTA	2899	CA	GLY	в 679	36.886	56.634	-5.185		č
	2900	C		в 679	36.092	55.721	-4.262	1.00 88.48	_
ATOM					35.310	56.177	-3.428	1.00 88.73	0
ATOM	2901	0		B 679	35.510	54.419		1.00 85.88	
MOTA	2902	N		B 680	36.287			1.00 82.00	_
ATOM	2903	CA	LEU	B 680	35.636	53.429			_
		CB		в 680	36.148	52.042	-3.964	1.00 81.24	C
MOTA	2904	CD	,,,,,,	_ 550					

							_E 461	1.00 80.77	С
ATOM	2905		LEU B		36.078	51.693 50.407	-5.451 -5.684	1.00 80.19	С
ATOM	2906		LEU B		36.837 34.622	51.551	-5.904	1.00 80.14	С
MOTA	2907			680	36.052	53.748	-2.159	1.00 80.99	С
ATOM	2908		LEU B LEU B		36.985	54.527	-1.940	1.00 80.94	0
ATOM	2909		LYS B		35.375	53.146	-1.187	1.00 78.52	N
ATOM	2910 2911		LYS B		35.715	53.365	0.216	1.00 75.95	C
ATOM ATOM	2912		LYS B		34.915	52.405	1.113	1.00 77.03	Ċ
ATOM	2913		LYS B		33.607	52.968	1.681	1.00 76.21	č
ATOM	2914		LYS B		32.524	53.061	0.627	1.00 76.59	č
ATOM	2915		LYS B		31.235	53.644	1.201	1.00 75.88 1.00 75.97	Ñ
ATOM	2916		LYS B	681	30.669	52.814	2.310	1.00 74.41	č
ATOM	2917		LYS B		37.227	53.174	0.461	1.00 74.91	ō
ATOM	2918	0	LYS B		37.831	53.853	1.299 -0.269	1.00 71.90	N
MOTA	2919	N	SER B		37.835	52.248 51.999	-0.127	1.00 69.01	С
ATOM	2920	CA	SER B		39.262 39.508	50.656	0.569	1.00 68.35	С
MOTA	2921	CB	SER B		38.556	49.683	0.177	1.00 66.36	0
ATOM	2922	OG	SER B SER B		39.918	52.016	-1.496	1.00 67.66	C
MOTA	2923	C	SER B		40.363	50.987	-1.995	1.00 65.82	0
MOTA	2924 2925	Ŋ	GLN B		39.980	53.201	-2.093	1.00 67.49	N C
ATOM ATOM	2926	CA	GLN B		40.569	53.355	-3.412	1.00 67.81	c
ATOM	2927	СВ	GLN B		40.411	54.797	-3.886	1.00 68.53	č
ATOM	292B	CG	GLN B	683	40.970	55.027	-5.273	1.00 70.80 1.00 72.28	č
MOTA	2929	CD	GLN B		40.128	54.387	-6.370	1.00 72.28	Ō
ATOM	2930	OE1	GLN B		40.627	54.103	-7.464 -6.091	1.00 72.75	N
ATOM	2931	NE2	GLN B		38.844	54.174	-3.401	1.00 67.05	С
MOTA	2932	С	GLN B		42.043	52.960 52.145	-4.212	1.00 67.17	0
ATOM	2933	0	GLN B		42.481 42.800	53.536	-2.472	1.00 66.35	N
MOTA	2934	N	GLU B		44.228	53.249	-2.334	1.00 65.00	С
ATOM	2935	CA	GLU B	684 .	44.749	53.843	-1.014	1.00 66.56	c
ATOM	2936 2937	CB CG	GLU B		43.689	54.587	-0.160	1.00 68.85	C
ATOM	2938	CD	GLU B		42.691	53.665	0.565	1.00 69.98	C
ATOM ATOM	2939		GLU B		41.591	54.153	0.920	1.00 71.06	0
ATOM	2940		GLU B		43.005	52.471	0.792	1.00 69.24	č
ATOM	2941	С	GLU B	684	44.479	51.727	-2.382	1.00 64.38 1.00 63.15	ŏ
ATOM	2942	0	GLU B		45.092	51.211	-3.327 -1.361	1.00 63.00	N
ATOM	2943	N	LEU B		44.013	51.012 49.556	-1.316	1.00 62.80	С
MOTA	2944	CA	LEU B		44.151	48.970	-0.246	1.00 65.40	С
MOTA	2945	CB	LEU B		43.226 43.819	48.675	1.129	1.00 68.11	С
ATOM	2946	CG	LEU B		44.163	49.985	1.854	1.00 67.89	C
ATOM	2947		LEU B		42.811	47.825	1.919	1.00 69.46	C
ATOM	2948 2949	CDZ	LEU B		43.817	48.905	-2.675	1.00 61.26	c
ATOM ATOM	2950	ŏ	LEU B		44.556	48.043	-3.162	1.00 60.65	И О
ATOM	2951	Ŋ	PHE B		42.696	49.313	-3.272	1.00 58.66	C
ATOM	2952	CA	PHE B	686	42.254	48.776	-4.565	1.00 56.31 1.00 51.82	č
ATOM	2953	CB	PHE B		40.968	49.482	-5.019	1.00 48.12	č
ATOM	2954	CG	PHE B		40.427	48.970	-6.316 -6.341	1.00 46.69	Ç
ATOM	2955		PHE B		39.563 40.818	47.884 49.539	-7.518	1.00 46.24	С
ATOM	2956		PHE E		39.098	47.371	-7.531	1.00 44.49	С
ATOM	2957		PHE E		40.357	49.029	-8.714	1.00 44.19	C
ATOM	2958	CZ	PHE E		39.496	47.939	-8.718	1.00 45.12	C
MOTA	2959 2960	C	PHE E		43.342	48.959	-5.627	1.00 56.54	C 0
ATOM ATOM	2961	ŏ	PHE E	3 686	43.717	48.016		1.00 55.25	и
ATOM	2962	N	ASP E	3 687	43.844	50.185	-5.729	1.00 58.32	Č
ATOM	2963	CA	ASP F	3 687	44.891	50.517	-6.685	1.00 59.23 1.00 60.79	č
ATOM	2964	CB	ASP E	3 687	45.294	51.986	-6.545 - 7.627	1.00 63.39	Ċ
ATOM	2965	CG	ASP F	3 687	44.691	52.840	-7.831	1.00 65.82	0
ATOM	2966	OD1	ASP I	3 687	43.465	52.701 53.629	-8.272	1.00 62.93	0
ATOM	2967		ASP I	3 68 /	45.426 46.126	49.631	-6.574	1.00 58.73	С
ATOM	2968	C	ASP I		46.797	49.387		1.00 57.95	0
ATOM	2969	0	ASP I		46.423	49.153		1.00 58.75	N
ATOM	2970	n Ca	GLU I		47.580	48.287		1.00 58.24	C
ATOM	2971 2972	CB	GLU I		47.944	48.250		1.00 60.11	C
ATOM ATOM	2973	CG		B 688	48.286	49.606		1.00 63.37	C
ATOM	2974	CD		B 688	48.970	49.487	·	1.00 65.67	ŏ
ATOM	2975	OE1	GLU 1	в 688	49.168	50.534			ő
ATOM	2976	OE2	GLU I	в 688	49.316				č
ATOM	2977	С		B 688	47.281			1.00 57.05	ō
ATOM	2978	0		В 688	48.010			01	Ŋ
MOTA	2979	N		В 689	46.198				С
ATOM	2980	CA		B 689	45.815 44.423				Ç
ATOM	2981	CB	ILE :	B 689	44.045			1.00 52.44	C
MOTA	2982	CG2	ILE :	B 689	44.458			1.00 53.65	C
MOTA	2983 2984		ILE	B 689	43.154		-2.703	1.00 53.41	C C
ATOM ATOM	2985			B 689	45.759		-7.055	1.00 53.37	C
HIOH		_							

MOTA	2986	0	ILE I	В	689	46.342	43.967	-7.655		54.21	0
MOTA	2987	N	ARG I	В	690	45.066	45.808	-7.676		51.88	N C
MOTA	2988	. •	ARG I			44.919	45.805 46.978	-9.116 -9.536		51.49 52.39	č
ATOM	2989	CB CG	ARG I			44.034 44.189	47.381			54.70	C
MOTA MOTA	2990 2991	CD	ARG I			43.085	48.326			56.18	C
ATOM	2992	NE	ARG I			42.174		-12.411		57.73	N C
MOTA	2993	CZ	ARG I			42.289		-13.735		57.87 57.72	N
ATOM	2994		ARG I			43.274 41.441		-14.295 -14.494		56.50	N
ATOM ATOM	2995 2996	NH2 C	ARG I			46.271	45.869	-9.821	1.00	51.68	С
ATOM	2997	ŏ	ARG			46.443		-10.921		50.57	N N
MOTA	2998	N	MET !			47.228	46.522	-9.163 -9.704		51.50 50.83	C
MOTA	2999	CA	MET I			48.571 49.318	46.687 47.811	-8.980		51.79	С
MOTA MOTA	3000 3001	CB CG	MET I			50.657	48.132	-9.640	1.00	53.36	С
MOTA	3002	SD	MET			50.537		-11.467		56.41	s C
MOTA	3003	CE	MET 1			50.029		-11.583		53.40 49.99	ċ
ATOM	3004	C	MET :			49.398 50.072	45.411	-9.635 -10.603		48.85	0
MOTA MOTA	3005 3006	N N	THR			49.340	44.730	-8.496	1.00	48.11	N
ATOM	3007	CA	THR			50.114	43.513	-8.335		46.83	C
MOTA	3008	CB	THR :			50.000	42.956	-6.928		46.08 49.37	0
MOTA	3009		THR			48.754 50.066	42.275 44.068	-6.801 -5.903		46.75	Č
ATOM ATOM	3010 3011	CG2	THR :			49.603	42.470	-9.317	1.00	46.35	C
ATOM	3012	ŏ	THR			50.305	41.507	-9.640		47.83	N N
MOTA	3013	N	TYR			48.387	42.677	-9.817		45.12 44.76	Ç
MOTA	3014	CA	TYR TYR			47.796 46.285		-10.765 -10.497		44.50	С
atom Atom	3015 3016	CB	TYR			45.972	40.602	-9.348	1.00	44.58	C
ATOM	3017	CD1	TYR	В	693	46.289	39.239	-9.432		43.56	C C
ATOM	3018		TYR			46.102	38.378	-8.335 -8.143		44.48 44.00	č
MOTA	3019		TYR TYR			45.453 45.265	41.076	-7.041		44.28	С
ATOM ATOM	3020 3021	CZ	TYR			45.596	38.878	-7.141		44.52	C
ATOM	3022	OH	TYR			45.449	38.031	-6.058		45.05	o c
MOTA	3023	C	TYR			48.042		-12.214 -13.137		44.54 43.82	ŏ
ATOM	3024 3025	N O	TYR ILE			47.815 48.517		-12.418	1.00	44.29	N
ATOM ATOM	3025	CA	ILE			48.822	43.810	-13.763		43.94	C C
ATOM	3027	CB	ILE			48.838		-13.826		45.22 46.14	C
MOTA	3028		ILE			49.616 47.411		-15.040 -13.865		45.73	С
ATOM	3029 3030		ILE			47.356		-13.790	1.00	45.91	С
ATOM ATOM	3031	c	ILE			50.207	43.264	-14.091		42.71	C O
MOTA	3032	0	ILE			50.459		-15.193 -13.117		42.26 42.80	N
MOTA	3033	N CA	LYS			51.103 52.459		-13.328		44.23	С
ATOM ATOM	3034 3035	CA CB	LYS			53.385	43.388	-12.225		43.77	C
ATOM	3036	CG	LYS	В	695	53.502		-12.178		41.81	C
ATOM	3037	CĐ	LYS			54.713	45.391	-11.356 -9.916		44.34 43.71	č
MOTA	3038 3039	CE NZ	LYS LYS			54.702 53.494	45.340	-9.178		46.81	И
ATOM ATOM	3040	C	LYS			52.475	41.357	-13.374		44.98	C
ATOM	3041	0	LYS	В	695	53.337		-14.007		43.80 46.62	O N
MOTA	3042	N	GLU			51.504 51.350		-12.691 -12.680		47.42	C
MOTA MOTA	3043 3044	CA CB	GLU GLU			50.241		-11.719	1.00	50.39	C
ATOM	3045	CG	GLU			50.272		-11.351		54.67	C C
ATOM	3046	CD	GLU			51.597		-10.718		57.62 55.86	Ö
ATOM	3047		GLU			52.042 52.184	37.706 36.034	-9.745 -11.193	1.00	58.67	Ö
ATOM ATOM	3048 3049	C	GLU			51.005		-14.111	1.00	47.58	С
ATOM	3050	ō	GLU			51.457	37.813	-14.579		48.57	O N
ATOM	3051	N	LEU			50.178		-14.793		45.75	C
ATOM	3052	CA	LEU			49.831 48.741		-16.177 -16.648		42.19	C
ATOM	3053 3054	CB CG	LEU			48.582		-18.159	1.00	40.14	C
ATOM ATOM	3055		PEO			48.198	39.136	-18.721		38.51	C
ATOM	3056	CD2	LEU	В	697	47.529		-18.484		39.50 43.61	C C
MOTA	3057	C	LEU			51.083 51.272		-17.040 -18.024		41.63	ŏ
ATOM	3058 3059	N O	LEU GLY			51.921		-16.674	1.00	44.56	N
ATOM ATOM	3060	CA	GLY			53.159	40.758	-17.402		45.69	C
MOTA	3061	С	GLY	В	698	54.068		-17.299		47.25	0
MOTA	3062	0	GLY		698 699	54.685 54.139		-18.281 -16.102		47.96	N
ATOM	3063 3064	N CA			699	54.962	37.771	-15.890	1.00	49.29	C
MOTA MOTA	3065	CB	LYS	В	699	54.982		-14.412		47.65	C
ATOM	3066	CG	LYS	В	699	55.503	38.433	-13.475	1.00	47.58	_

7 MON	3067	CD I	YS B	699	55.468	37.965	-12.025	1.00			C
ATOM ATOM	3068		YS B		55.575	39.162		1.00			C N
MOTA	3069	NZ I	YS B		56.604	40.181		1.00			c
MOTA	3070		YS B		54.433 55.214	36.596 35.797	-17.246	1.00			0
ATOM	3071 3072		LYS B		53.106	36.499	-16.840	1.00			N
ATOM ATOM	3073		ALA B		52.472	35.423	-17.610	1.00			C C
ATOM	3074	CB F	ALA B	700	50.960	35.467	-17.457	1.00	57.96		č
MOTA	3075	- :	ALA B		52.849 52.693	35.554 34.617		1.00			0
ATOM	3076		ALA B		53.354	36.722	-19.442	1.00	60.57		N
ATOM ATOM	3077 3078		ILE B		53.777	36.956	-20.811		63.02		C
ATOM	3079	CB 3	ILE B	701	53.229	38.305			62.96 63.57		č
ATOM	3080		ILE B		53.304 51.783		-22.853 -20.885		62.20		С
ATOM	3081 3082		ILE B		51.703	39.791			59.98		C
MOTA MOTA	3083		ILE B		55.309		-20.885		64.70		С О
ATOM	3084	0 :	ILE B		55.863		-21.966 -19.743		65.14 66.34		N
ATOM	3085	_	VAL B VAL B		55.983 57.443		-19.702	1.00	68.86		C
ATOM ATOM	3086 3087		VAL B		58.004	36.404	-18.375		70.10		C
ATOM	3088	CG1	VAL B	702	57.776		-18.272		71.64 69.37		č
MOTA	3089		VAL B		59.495 58.113		-18.265 -20.804		70.42		С
ATOM	3090		VAL B VAL B		59.268		-21.137	1.00	70.65		0
ATOM ATOM	3091 3092		LYS B		57.399	35.112	-21.350		70.99		N C
ATOM	3093	CA :	LYS B	703	57.914		-22.439 -22.644		71.66 71.59		č
ATOM	3094		LYS B		57.009 55.970		-21.564		70.04		С
MOTA	3095 3096		LYS B LYS B		56.607		-20.222		68.00		C
ATOM ATOM	3097		LYS B		55.556		-19.156		65.59 65.22		C N
ATOM	3098	NZ	LYS B		56.127		-17.866 -23.777		72.38		Ċ
ATOM	3099	-	LYS B LYS B		58.056 58.385		-24.824	1.00	71.19		0
ATOM ATOM	3100 3101		ARG B		57.805	36.331	-23.715		73.01		N C
ATOM	3102	CA	ARG B	704	57.912	37.238	-24.862		71.93 73.00		Č
MOTA	3103		ARG B		56.884 55.386	36.822	-25.950 -25.615		74.27		С
ATOM	3104		ARG B		54.844	35.840	-24.661	-1.00	75.35		C
ATOM ATOM	3105 3106		ARG E		55.212	34.469	-25.024		76.36 76.03		N C
ATOM	3107		ARG E		54.643		-24.524 -23.642		75.36		N
ATOM	3108		ARG E		53.652 55.102		-24.872	1.00	75.34		N
MOTA MOTA	3109 3110		ARG E		57.790	38.753	-24.472		69.64		C O
ATOM	3111		ARG E		57.608		~23.279		66.65 69.12		ŏ
ATOM	3112		ARG F		57.913 57.385	43.292	-25.331 -25.054		76.67		С
ATOM	3113 3114		TRP E		57.366	44.681	-24.422		79.75		C
ATOM ATOM	3115		TRP E		57.776	45.002	-23.093		80.68 80.36		C C
ATOM	3116		TRP F		57.527		-22.892 -22.047		81.33		С
MOTA	3117		TRP E		58.330 56.896	45.859	-24.973	1.00	79.14		С
ATOM ATOM	3118 3119		TRP I		56.992	46.882	-24.052		79.72		N C
ATOM	3120	CZ2	TRP F	3 712	57.816	47.025	-21.682		81.24 82.51	•	č
MOTA	3121		TRP I		58.616 58.358		-20.850 -20.676		82.92		С
ATOM	3122 3123	CH2	TRP I	3 712	54.927	43.386	-25.637	1.00	72.19		С О
MOTA MOTA	3124	ŏ	TRP I	B 712	54.447	44.380	-25.077	1.00	70.94 73.16		N
ATOM	3125	N		B 712	56.159	41.213	-25.628 -24.971	1.00	73.21		C
ATOM	3126	CA		В 712 В 7 13	56.037 54.553		-26.851	1.00	70.70		N
ATOM ATOM	3127 3128	N CA		B 713	53.492	43.651	-27.617		67.50		C
ATOM	3129	CB	GLN I	в 713	53.709		-29.115		68.09 67.09		č
ATOM	3130	CG		B 713	52.723 52.700	43.721	-29.979 -31.410	1.00	67.32		C
ATOM ATOM	3131 3132	CD OE1	GPN :	B 713 B 713	52.013	42.757	-31.747	1.00	66.63		0
ATOM	3133		GLN 1	в 713	53.464	44.385	-32.263		68.23 66.02		N C
ATOM	3134	С		В 713	52.150		-27.250 -27.511	1.00	65.24		Õ
ATOM	3135		GLN :	в 713 в 714	51.084 52.223		-26.659	1.00	63.31		N
ATOM ATOM	3136 3137			в 714 в 714	51.036	41.078	-26.254	1700	61.48		C
ATOM	3138		ARG	B 714	51.482	39.716	-25.702		61.13 59.67		c
MOTA	3139	CG		B 714	50.368		-25.510 -25.234	1.00) 59.23		C
ATOM	3140		ARG	В 714 В 714	50.938 49.896	36.328	-25.029	1.00) 56.56		N
MOTA MOTA	3141 3142	CZ	ARG	в 714	49.013	35.927	7 -25.939	1.00	55.25		C N
ATOM	3143	NHI	ARG	B 714	48.997	36.412	2 -27.181 5 -25.576	1.00	52.86 55.23		N
ATOM	3144		ARG	в 714 в 714	48.122 50.140		-25.228	1.00	59.45		C
ATOM	3145 3146		AKG	B 714 B 714	48.900	41.774	4 -25.291	1.00	57.76		Ŋ
ATOM ATOM	3147			в 715	50.779		2 -24.294	1.00	56.93		14
	3 - 3 -										

ATOM	3148	CA I	PHE B 7	15	50.081	43.275	-23.265	1.00		C C
ATOM	3149			/15	51.112	44.083	-22.476	1.00		c
MOTA	3150			715	50.671 50.517	44.440	-21.098	1.00		č
ATOM	3151 3152		PHE B 7 PHE B 7	715 715	50.402		-20.765		55.32	C
MOTA MOTA	3153		PHE B 7		50.097	43.788	-18.845		54.58	C
ATOM	3154		PHE B 7		49.979		-19.484		55.32	C C
ATOM	3155		PHE B		49.829	45.101	-18.524 -23.873		54.38 55.83	č
MOTA	3156		PHE B 7		49.029 47.873		-23.427		54.59	0
ATOM	3157 3158		PHE B 7 TYR B 7		49.438		-24.902	1.00	54.74	N
ATOM ATOM	3159		TYR B		48.533	45.877	-25.559		53.12	C C
ATOM	3160	CB '	TYR B	716	49.292		-26.637		52.93 53.35	c
MOTA	3161		TYR B		48.468		-27.341 -28.451		53.30	č
ATOM	3162		TYR B TYR B		47.676 46.879		-29.093		52.48	C
ATOM ATOM	3163 3164		TYR B		48.444	49.018	-26.881		53.10	C
ATOM	3165		TYR B		47.649	49.984	-27.512		53.79 53.73	c
ATOM	3166		TYR B		46.860	49.621	-28.619 -29.229		52.54	ō
ATOM	3167		TYR B ' TYR B '		46.025 47.327		-26.155		51.97	С
ATOM ATOM	3168 3169		TYR B		46.190	45.602	-26.035		52.22	0
ATOM	3170		GLN B		47.575		-26.783		49.96	N C
ATOM	3171	CA	GTN B ,		46.501		-27.396		48.22 45.77	Č
ATOM	3172		GLN B		47.088 47.976	42.083	-28.250 -29.384		43.14	С
MOTA	3173		GLN B		48.663	41.426	-30.120		41.51	C
MOTA MOTA	3174 3175			717	49.286	40.551	-29.513		40.43	O N
ATOM	3176	NE2	GLN B		48.556	41.437	-31.435		43.58 49.89	C
ATOM	3177		GLN B		45.565		-26.337 -26.552		49.09	ō
ATOM	3178		GLN B		44.350 46.142		-25.189		49.29	N
ATOM ATOM	3179 3180			718	45.373	41.712	-24.084		49.37	C
ATOM	3181		LEU B		46.308		-23.085		47.38	C
ATOM	3182			718	47.051		-23.597 -22.435		47.24 44.05	Č
ATOM	3183			718 719	47.762 46.087	38.767	-24.238		45.93	С
ATOM ATOM	3184 3185		LEU B	718 718	44.566		-23.378	1.00	50.80	C
ATOM	3186		LEU B		43.344		-23.181		52.36	O N
ATOM	3187			719	45.255	43.880	-23.019		50.84 48.98	C
MOTA	3188	CA	THR B		44.617 45.625	46.981	-22.325 -21.941		49.16	c
MOTA	3189 3190	CB OG1	THR B		46.694	45.500	-21.179		46.67	0
ATOM ATOM	3191		THR B		44.937	47.140	-21.093		50.99	C
ATOM	3192	С	THR B	719	43.571		-23.237		48.42 48.95	ŏ
MOTA	3193	0	THR B		42.725 43.624		-22.811 -24.500		47.59	N
ATOM	3194 3195	N CA	LYS B		42.661		-25.461		47.80	С
ATOM ATOM	3196	CB	LYS B		43.317	45.745	-26.844		49.63	C C
ATOM	3197	CG	LYS B		42.422		-27.953		51.82 52.24	č
MOTA	3198	CD	LYS B		43.207 42.380		-29.247 -30.306		52.49	С
ATOM	3199 3200	CE NZ		720 720	43.224	47.573	-31.486		52.65	N
ATOM ATOM	3201	c		720	41.436	44.751	-25.486		46.63	C
MOTA	3202	Ó	LYS B		40.317		-25.660		46.51 45.33	N
ATOM	3203	N	LEU B		41.656 40.560	43.450	-25.302 -25.305		42.47	C
MOTA	3204 3205	CA CB	LEU B		41.117	41.060	-25.363	1.00	42.88	С
ATOM ATOM	3206	CG	LEU B		40.151	39 925	-25.004	1.00	43.91	C
ATOM	3207	CD1	LEU B	721	39.067	39.890	-26.009	1.00	45.30	c
MOTA	3208		LEU B	721	40.833		-25.023 -24.038		41.80	Č
ATOM	3209	C O	LEU B		39.737 38.517		-24.041	1.00	39.97	0
ATOM ATOM	3210 3211	N	LEU B		40.424	42.989	-22.952		39.88	N
ATOM	3212	CA	LEU B	722	39.758	43.185	-21.687		40.22	C
MOTA	3213	CB	LEU B		40.781	43.381	-20.560		38.14 36.88	č
MOTA	3214	CG	LEU B	722	41.587 42.644	42.13/	-20.106 -19.094		34.06	С
MOTA	3215	CD1	LEU B	722	40.661	41.092	-19.502	1.00	34.77	С
MOTA MOTA	3216 3217	CD2	LEU B	722	38.817	44.379	-21.758		41.55	C
ATOM	3218	ŏ	LEU B	722	37.799	44.420	-21.068		42.09	N O
ATOM	3219	N	ASP B	723	39.151		3 -22.595 3 -22.740		44.60	C
ATOM	3220	CA	ASP B	123 723	38.316 39.172	40.543	-22.740 -23.232	1.00	45.05	С
ATOM	3221 3222	CB CG	ASP B	723	40.005	48.345	-22.112	1.00	47.19	C
MOTA MOTA	3223	OD1	ASP B	723	40.045	47.792	2 -20.986		46.92	0
ATOM	3224	OD2	ASP B	723	40.612	49.410	22.356		48.11	c
MOTA	3225	С	ASP B	723	37.130	46.293	3 -23.683 4 -23.462		46.39	ŏ
ATOM	3226		ASP B SER B	724	36.015 37.361	45.532	2 -24.736	1.00	43.42	N
MOTA MOTA	3227 3228		SER B	724	36.289	45.23	-25.651	1.00	42.07	С
AT OF	3620									

				724	36.838	44.469	-26.838	1.00		C
MOTA	3229 3230		ER B		36.550	43.096	-26.689	1.00		0
ATOM ATOM	3230		ER B		35.210	44.388	-24.954	1.00		Ö
ATOM	3232	0 5	ER B		34.092	44.250	-25.459 -23.802	1.00		N
ATOM	3233	**	ÆT B		35.556 34.637	42.986	-23.002	1.00		C
ATOM	3234			725 725	35.375	42.325	-21.856	1.00		C
ATOM ATOM	3235 3236			725	36.235	41.121	-22.233	1.00		C S
ATOM	3237			725	35.250	39.806	-23.021	1.00		č
ATOM	3238			725	34.168	39.284 43 829	-21.651 -22.503	1.00		С
ATOM	3239	-		725	33.487 32.351	43.365	-22.410	1.00	45.72	0
MOTA	3240 3241		MET B	726	33.794	45.076	-22.158		48.01	N C
ATOM ATOM	3242		HIS B	726	32.802		-21.641	1.00	50.00 51.97	č
MOTA	3243		HIS B		33.420	47.395	-21.498 -20.906		58.14	č
MOTA	3244		HIS B		32.496 31.900	49.505	-21.442		60.34	C
MOTA	3245		HIS B HIS B		32.070	48.342	-19.597		61.53	N
ATOM ATOM	3246 3247		HIS B		31.260	49.362	-19.349		62.76	C N
ATOM	3248	NE2	HIS B	726	31.148	50.077	-20.458		61.25 50.40	Ĉ
ATOM	3249		HIS B		31.595 30.451	46.072	-22.573 -22.125		52.16	0
ATOM	3250	_	HIS B		31.856	46.137	-23.873	1.00	49.81	N
ATOM ATOM	3251 3252		GLU B GLU B		30.795	46.199	-24.869		49.25	C C
ATOM	3253		GLU B		31.406	46.482	-26.244		50.48 51.71	č
ATOM	3254		GLU B		30.386	46.648	-27.373 -28.612		53.11	C
ATOM	3255		GLU B		30,961 31.811	48.233	-28.440	1.00	52.61	0
ATOM	3256 3257		GLU B GLU B		30.546	46.981	-29.748		51.75	o C
ATOM ATOM	3258		GLU B		30.007	44.891	-24.910		48.75 50.50	ŏ
ATOM	3259	0	GLU B		28.785	44.882	-25.083 -24.756		47.36	N
ATOM	3260		VAL B		30.712 30.076	42.470	-24.776		43.82	C
ATOM	3261	CA CB	VAL E		31.128	41.362	-24.695		41.74	c c
ATOM ATOM	3262 3263		VAL E		30.475	39.989	-24.804		41.91 39.40	č
ATOM	3264		VAL E		32.124	41.555	-25.791 -23.619	1.00	44.32	С
ATOM	3265	C	VAL E		29.103 27.961	41.878	-23.814	1.00	42.74	0
ATOM	3266 3267	O N	VAL E		29.560	42.653	-22.419	1.00	44.29	N C
ATOM ATOM	3268	CA	VAL E		28.759	42.506	-21.210		44.82 43.65	č
ATOM	3269	CB	VAL E		29.551	42.982	-19.961 -18.70B		41.24	С
ATOM	3270		VAL E		28.683 30.764	42.096	-19.782	1.00	43.59	C
MOTA	3271 3272	C	VAL I		27.427	43.230	-21.298		45.78	С О
ATOM ATOM	3273	ŏ	VAL I		26.405		-20.848		45.13 47.33	N
ATOM	3274	N	GLU I		27.442 26.228		-21.900 -22.046		47.83	С
MOTA	3275	CA	GLU I		26.553	46.622	-22.599	1.00	50.86	C
ATOM	3276 3277	CB CG	GTO 1		26.662	47.710	-21.506		54.86	C
MOTA MOTA	3278	CD	GLU I		27.996	48.455	-21.503		59.05 59.53	ŏ
ATOM	3279		Gru i		28.185 28.850	49.349	-22.371 -20.629		59.65	0
ATOM	3280	OE2 C	GLU I		25.222		-22.937		45.22	C
ATOM ATOM	3281 3282	Ö	GLU :		24.017	44.554	-22.687		43.25	о И
MOTA	3283	N	ASN !	в 731	25.724		3 - 23.970		44.09	c C
ATOM	3284	CA	ASN	B 731	24.840 25.573		2 -24.859 3 -26.140	1.00	45.08	С
MOTA	3285	CB CG	ASN	в 731 в 731	25.791	44.041	L -26.990	1.00	46.07	c o
MOTA MOTA	3286 3287	OD1	ASN	в 731	24.842	44.560	-27.572	_	46.06	Ŋ
MOTA	3288	ND2	ASN	в 731	27.022	44.534	4 -27.039 2 -24.225		44.20	Ċ
ATOM	3289		ASN	B 731	24.287 23.173	41.545	5 -24.548		45.09	0
ATOM	3290		ASN	В 731 В 732	25.072	41.32	1 -23.331	1.00	46.30	N
ATOM ATOM	3291 3292			B 732	24.698	40.09	7 -22.612		45.34	c c
MOTA	3293		LEU	в 732	25.945		9 -22.082 5 -23.167		44.74	č
ATOM	3294	CG	LEU	B 732	26.782 27.797	37.75	3 -22.492		43.46	С
MOTA	3295		LEU	в 732 в 732	25.875	37.89	7 -24.14]	. 1.00	40.69	C
MOTA MOTA	3296 3297		LEU	B 732	23.735	40.39	4 -21.469	1.00	45.18	C
ATOM	3298		LEU	B 732	22.710	39.72	4 -21.340		0 45.02 0 46.19	. и.
MÓTA	3299	N	LEU	в 733	-24.069		7 -20.634 5 -19.531		0 47.86	С
MOTA	3300		LEU	в 733 в 733	23.186 23.758	43.00	6 -18.797	1.0	0 48.59	c
MOTA	3301		LEU	в 733 в 733	24.922	42.76	6 -17.83	5 1.0	0 50.13	C C
ATOM ATOM	3302 3303	cn1	LEU	в 733	25.562	44.10	0 -17.419	9 1.0	0 47.59 0 49.36	C
ATOM	3304	CD2	LEU	в 733	24.397		9 -16.650 4 -20.11		0 49.36	č
ATOM	3305	C	LEU	B 733	21.818 20.772		3 -19.54		0 46.17	0
MOTA	3306		LEU	в 733 в 734	21.843	42.83	1 -21.25	4 1.0	0 48.60	
MOTA MOTA	3307 3308		ASN	в 734	20.627	43.22	6 -21.92	в 1.0	0 49.68	
ATOM	3309	_	ASN	в 734	20.948	43.77	9 -23.29	2 1.0	0 49.21	Č

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MOTA	3310	CG .	ASN B	734	20.398	45.138			49.24	C .
ATOM	3311			734	20.672	46.019			47.53 50.01	N N
ATOM	3312			734	19.590	45.328			51.45	C
ATOM	3313	-	ASN B ASN B		19.662 18.624	42.019			53.06	0
MOTA	3314 3315		TYR B		19.988	41.148	-22.990		52.73	N
ATOM ATOM	3316		TYR B		19.111	40.016			55.80	C C
ATOM	3317	CB	TYR B	735	19.782	38.991	-24.120		59.40 65.76	c
MOTA	3318		TYR B		18.792	38.216 37.737			67.60	c
MOTA	3319		TYR B TYR B	735 735	17.573 16.663		-25.213		67.60	С
ATOM ATOM	3320 3321			735	19.079	37.926	-26.310		67.46	C C
ATOM	3322	CE2	TYR B	735	18.180		-27.098		69.17 69.21	c
ATOM	3323		TYR B		16.976 16.079		-26.535 -27.282		70.20	ō
ATOM	3324		TYR B		18.711		-21.903		55.58	С
ATOM ATOM	3325 3326		TYR B		17.615	38.766	-21.784		56.75	0
ATOM	3327		CYS B		19.607		-20.924		54.89	N C
ATOM	3328	CA	CYS B		19.336		-19.632 -18.670		53.16 51.12	č
MOTA	3329	CB	CYS B		20.511 20.310		-17.164		47.19	S
ATOM	3330 3331	SG C	CYS B		18.074		-19.051	1.00	53.51	C
ATOM ATOM	3332	ŏ	CYS B		17.122	38.704	-18.698		52.40	O N
ATOM	3333	N	PHE B		18.069	40.734	-18.974		55.03 57.00	c
MOTA	3334	CA	PHE B		16.925 17.251		-18.440 -18.214		59.20	С
ATOM	3335 3336	CB CG	PHE B		18.103		-16.989		62.18	C
ATOM ATOM	3337		PHE B		19.378	42.637	-16.873		63.49	C C
ATOM	3338		PHE B		17.643		-15.972		63.94 64.91	c
ATOM	3339		PHE B		20.199 18.449		-15.759 -14.850		65.77	Č
ATOM	3340	CEZ	PHE B		19.733		-14.745	1.00	65.88	C
ATOM ATOM	3341 3342	C	PHE B		15.732	41.321	-19.365		57.94	С 0
ATOM	3343	Ō	PHE B	737	14.598		-18.923		57.80 58.27	N
ATOM	3344	N	GLN B		15.984 14.906		-20.638 -21.601		57.71	C
ATOM	3345	CA CB		738 738	15.435		-23.009		57.26	С
ATOM ATOM	3346 3347	CG		738	16.081	41.856	-23.593		56.92	C
ATOM	3348	CD	GLN B	738	16.256		-25.100		56.35 53.23	ō
MOTA	3349			738	16.617		-25.699 -25.724		55.08	N
ATOM	3350			738 738	15.997 13.930		-21.150		59.66	С
ATOM MOTA	3351 3352	С О		738	12.866	40.192	-20.615		62.99	N O
ATOM	3353	N	THR B	739	14.243		-21.331		55.69 53.07	C
MOTA	3354	CA		739	13.270		-20.852 -22.025		54.97	č
ATOM	3355 3356	CB OG1		739 739	12.498 12.318		-23.112		52.90	0
ATOM ATOM	3357		THR B		11.054	36.428	-21.527		55.27	C
ATOM	3358	C	THR B	739	13.808		-19.834		50.60 52.43	ō
ATOM	3359	0	THR B		14.335 13.622		-20.142 -18.595		49.01	N
ATOM	3360 3361	n CA	PHE B	740	13.022		-17.342		46.71	С
ATOM ATOM	3362	CB		740	15.525	36.369	-17.159		44.70	C
ATOM	3363	CG	PHE B	740	16.198		-17.644		42.24 42.14	c
MOTA	3364		PHE B		17.436	35.137	-18.304 -17.403		40.98	Č
ATOM	3365 3366		PHE B		15.591 18.068	33.950	-18.712	1.00	41.87	С
ATOM ATOM	3367	CE2	PHE B	740	16.191	32.663	-17.794		39.92	C
ATOM	3368	CZ	PHE B	740	17.433	32.699	-18.450		43.48 46.50	č
ATOM	3369	C	PHE B		13.327 12.258	37.428	-16.433 -15.848		45.17	ō
ATOM	3370 3371	N O	PHE B		13.982		-16.391		48.07	N
ATOM ATOM	3372	CA	LEU B		13.516	39.736	-15.641		46.54	C
MOTA	3373	СВ	LEU B		14.665	40.698	-15.380		44.72	C C
MOTA	3374	CG	LEU B	741	15.868	40.048	-14.695 -14.429		42.98	Č
MOTA	3375	CDI	LEU B	741	16.939 15.412		-13.394		43.80	С
ATOM ATOM	3376 3377	CD2	LEU B	741	12.481	40.405	-16.511	1.00	46.91	C
MOTA	3378	0	LEU B	741	11.496	40.899	-15.940		46.63	0
ATOM	3379		LEU B		12.679	40.423 36.635	-17.747 0.119		51.23 48.62	č
MOTA	3380	C1	486 C 486 C	1 1	10.688 10.546	38.167	0.251		49.83	С
MOTA MOTA	3381 3382	C2 C3	486 C		11.801	38.921	0.746	1.00	48.98	C
ATOM	3383	C4	486 C	1	13.055	38.370	0.826		45.85	C
MOTA	3384	C5	486 C		13.329	36.980			45.84	č
MOTA	3385	C6	486 C		12.119 14.172	36.103 39.315			44.44	С
ATOM ATOM	3386 3387	C7 C8	486 C 486 C		15.194	38.470	2.098	1.00	44.18	C
MOTA	3388	C9	486 C	1	15.753	37.359			41.72	C
MOTA	3389	C10	486 C		14.615	36.424			43.28 41.05	c
ATOM	3390	C11	. 486 C	1	16.727	36.595	2.000	00	, -1.03	-

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			17.443 35.395 1.442 1.00 41.10	C
MOTA		ļ	16 192 34 446 1.098 1.00 41.32	C
	3332 013 100 -	1 1	15 075 34.888 0.103 1.00 43.10	č
	3393 021 106	1	17 913 37.361 2.803 1.00 42.04	č
	2234 072 100 0	1	18.946 36.235 3.096 1.00 42.10	č
	3333 040 100 0	1	18.410 34.848 2.583 1.00 41.97 18.410 34.848 2.583 1.00 42.79	ō
MOTA		1	19.537 34.076 2.182 1.00 42.75	C
MOTA		1	15.517 51.100 38 52	С
ATOM ATOM		1	2 273 1 00 42 53	C
ATOM		1	15.475 33.001 2 759 1 00 43.83	С
ATOM	3401 C23 486 C	1	15.650 35.651 00 44.43	C
ATOM	3402 C24 486 C	1	16.201 33 305 -3.382 1.00 43.34	C
ATOM	3403 C25 486 C	1	15 049 33 454 -1.983 1.00 43.05	C
ATOM	3404 C26 486 C	1	16 629 34 233 -5.779 1.00 43.53	N C
ATOM	3405 N27 486 C	1 1	16.528 35.437 -6.615 1.00 40.20	č
ATOM	3406 C28 486 C 3407 C29 486 C	1	15.895 33.125 -6.435 1.00 44.57	ŏ
ATOM	3407 C29 486 C 3408 O30 486 C	ĩ	9.457 38.748 -0.040 1.00 53.82 9.457 38.748 4.471 1.00 40.70	С
MOTA	3409 C30 486 C	1	3 706 1 00 41-08	С
ATOM ATOM	3410 C31 486 C	1	17,000 011	С
ATOM	3411 C32 486 C	1	19.932 33.23 100 46 91	C
ATOM	3412 C1 486 D	1	20.500 25.402 -18 277 1.00 46.80	C
ATOM	3413 C2 486 D	1	can 31 065 -18 881 1.00 44.43	C
ATOM	3414 C3 486 D	1	27 175 32.591 -19.120 1.00 41.05	č
MOTA	3415 C4 486 D 3416 C5 486 D	i	25 835 32-129 -18.782 1.00 42.39	č
ATOM	406 0	ī	25 675 30.705 -18.101 1.00 44.02	č
MOTA	405 5	ī	41.433 33.30	С
ATOM	3418 C7 486 D 3419 C8 486 D	1		С
MOTA MOTA	3420 C9 486 D	1	24.963 54.562 1 00 40 66	С
ATOM	3421 C10 486 D	1	24.724 32.655 30.052 7.00 36.68	C
ATOM	3422 C11 486 D	1	23.922 34.682 -20.373 1.00 37.47	C
MOTA	3423 C12 486 D	1	20 20E 22 118 -19 926 1.00 3/.00	C
ATOM	3424 C13 486 D	1 1	23 158 32.521 -18.743 1.00 38.30	č
MOTA	3425 C14 486 D 3426 C15 486 D	i	24 048 36-073 -21.608 1.00 37.02	č
ATOM	3426 C15 486 D 3427 C16 486 D	ī	22 592 36.348 -22.093 1.00 37.44	č
ATOM	3427 C10 406 D	1	21.003 33.303 1 00 37.52	0
ATOM ATOM	3429 O3 486 D	1	20.307 33.132 1 00 37 86	С
ATOM	3430 C18 486 D	1	22.634 33.631 10.32.89	C
ATOM	3431 C19 486 D	1	22.108 33.82	c
ATOM	3432 C22 486 D	1	23.433 34 261 -15.063 1.00 33.00	C
MOTA	3433 C23 486 D	1 1	21 640 33.965 -14.566 1.00 32.79	Ċ
MOTA	3434 C24 486 D 3435 C25 486 D	ì	20.789 33.194 -15.511 1.00 35.54	č
ATOM	3435 C25 486 D 3436 C26 486 D	ī	21 277 32.758 -16.823 1.00 30.17	N
MOTA	3437 N27 486 D	1	21.103 34.321 -0 202 7 00 31 16	С
ATOM ATOM	3438 C28 486 D	1	22.013 33.00 1 00 33 27	С
ATOM	3439 C29 486 D	1	20.313 33.252 -17.826 1.00 52.82	0
MOTA	3440 O30 486 D	1	21 633 33 142 -23 494 1.00 41 97	C
ATOM	3441 C30 486 D	1 1	21 570 34.133 -22.749 1.00 38.91	c
ATOM	3442 C31 486 D 3443 C32 486 D	î	21 645 32.113 -24.598 1.00 39.71	č
ATOM	3443 C32 486 D 3444 C1 486 E	ī	14 179 35.293 -11.428 1.00 38.01	Ċ
ATOM	3445 C2 486 E	1	14.320 33.000 13.579 1 00 37.43	С
MOTA MOTA	3446 C3 486 E	1	13.334 34.664 -13 118 1.00 36.54	С
MOTA	3447 C4 486 E	1	16.599 35.604 11 737 1 00 36.31	C
ATOM	3448 C5 486 E	1	15 510 35.719 -10.748 1.00 36.28	C C
MOTA	3449 C6 486 E	1 1	17 707 35-960 -14.159 1.00 36.02	C
MOTA	3450 C7 486 E 3451 C8 486 E	1	18 328 37.301 -13.852 1.00 33.07	č
MOTA	3.40 5 70	ī	18 873 37.303 -12.404 1.00 34.00	č
MOTA	3453 C10 486 E	ī	17.770 36.905 -11.310 1.00 33.37	С
ATOM ATOM	3454 C11 486 E	1	10.917	С
atom atom	3455 C12 486 E	1	19.999 99.22	C
ATOM	3456 C13 486 E	1	10.720 37.494 -9.795 1.00 33.38	C
MOTA	3457 C14 486 E	. 1	20 544 39 300 -13.253 1.00 35.39	C
ATOM	3458 C15 486 E	' 1	21 202 40 490 -12.459 1.00 33.73	C
MOTA	3459 C16 486 E	1 1	20 481 40 621 -11.053 1.00 34.07	0
MOTA		1	21.454 41.040 -10.066 1.00 32.90	c
ATOM	-150 G10 ARE E		18.973 36.481 -8.917 1.00 35.40	č
ATOM	-140 010 406 F		21.272 38.333 -10.452 1.00 30.11	С
MOTA MOTA	3464 C22 486 E	1	19.399 35.152 -9.397 1.00 33.97	С
ATOM	3465 C23 486 E	1	20.212 34.546 -7.298 1.00 34.94	C
ATOM	3466 C24 486 E	1	20.241 35.876 -6.789 1.00 34.09	C
ATOM	3467 C25 486 E		10.420 36.793 -7.575 1.00 32.01	C N
ATOM	3468 C26 486 E	1	21 506 33 674 -6.439 1.00 36.11	C
ATON		i	21.941 32.395 -7.007 1.00 38.03	č
AOTA	010 AGE E	i	20.907 33.384 -5.149 1.00 38.43	•
MOTA	33,2 020			

115

ATOM ATOM ATOM ATOM ATOM ATOM END	3474	C30	486 486	E E X	1 1 1 1 2	18.364 19.414 17.218 9.283	33.663 -13.116 42.330 -11.163 41.686 -11.129 43.271 -11.355 41.417 -0.469 25.308 -16.720	1.00 31.67 1.00 33.64 1.00 24.92 1.00 29.28	0 C C O O
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GR 3

```
REMARK 3 REFINEMENT.
                          : CNX 2000.1
         3 PROGRAM
                          : Brunger, Adams, Clore, Delano,
REMARK
              AUTHORS
                             Gros, Grosse-Kunstleve, Jiang,
          3
REMARK
REMARK
          3
                             Kuszewski, Nilges, Pannu, Read,
         3
REMARK
                             Rice, Simonson, Warren
REMARK
                              and
REMARK
          3
                             Molecular Simulations Inc.,
                              (Badger, Berard, Kumar, Szalma,
          3
REMARK
REMARK
                              Yip).
REMARK
          3
REMARK
          3 DATA USED IN REFINEMENT.
         RESOLUTION RANGE HIGH (ANGSTROMS): 2.80
RESOLUTION RANGE LOW (ANGSTROMS): 37.27
REMARK
REMARK
          3 DATA CUTOFF HIGH (ABS(F)): 0.0
3 DATA CUTOFF LOW (ABS(F)): 0.000000
3 DATA CUTOFF LOW (ABS(F)): 0.000000
REMARK
REMARK
REMARK
          3 COMPLETENESS (WORKING+TEST) (%): 98.2
REMARK
REMARK
                                                    : 8219
              NUMBER OF REFLECTIONS
REMARK
REMARK
          3 FIT TO DATA USED IN REFINEMENT.
REMARK
                                                  : THROUGHOUT
         3 CROSS-VALIDATION METHOD
            FREE R VALUE TEST SET SELECTION : RANDOM
REMARK
REMARK
                               (WORKING SET) : 0.220
         3 R VALUE
REMARK
                                                  : 0.262
         3 FREE R VALUE
3 FREE R VALUE TEST SET SIZE
 REMARK
               FREE R VALUE TEST SET SIZE (%): 5.0
FREE R VALUE TEST SET COUNT : 414
 REMARK
               ESTIMATED ERROR OF FREE R VALUE : 0.013
 REMARK
 REMARK
         3 FIT IN THE HIGHEST RESOLUTION BIN.
 REMARK
 REMARK
              TOTAL NUMBER OF BINS USED
 REMARK
                                                  (A) : 2.80
               BIN RESOLUTION RANGE HIGH
 REMARK
                                             (A) : 2.98
               BIN RESOLUTION RANGE LOW
               BIN COMPLETENESS (WORKING+TEST) (%): 97.2
 REMARK
               REFLECTIONS IN BIN (WORKING SET): 1245
BIN R VALUE (WORKING SET): 0.287
 REMARK
 REMARK
 REMARK
                                                      : 0.323
               BIN FREE R VALUE
               BIN FREE R VALUE TEST SET SIZE (%): 5.0
BIN FREE R VALUE TEST SET COUNT : 65
 REMARK
 REMARK
               ESTIMATED ERROR OF BIN FREE R VALUE : 0.040
 REMARK
 REMARK
           3 NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.
 REMARK
 REMARK
                                : 2026
 REMARK 3 PROTEIN ATOMS
                                                0
               NUCLEIC ACID ATOMS
 REMARK
                                                 0
               HETEROGEN ATOMS
 REMARK
                                                 0
               SOLVENT ATOMS
 REMARK
 REMARK
           3 B VALUES.
           3 FROM WILSON PLOT
3 MEAN B VALUE (OVERALL, A**2) : 33.6
                                            (A**2) : 19.6
 REMARK
 REMARK
 REMARK
                OVERALL ANISOTROPIC B VALUE.
           3
 REMARK
                B11 (A**2) : 1.60
B22 (A**2) : 12.50
 REMARK
           3
  REMARK
                 B33 (A**2) :-14.10
           3
                                                                          1.10
  REMARK
                 B12 (A**2): 0.00
B13 (A**2): 0.00
B23 (A**2): 0.00
 REMARK
            3
            3
  REMARK
  REMARK
  REMARK
            3 BULK SOLVENT MODELING.
  REMARK
              METHOD USED : FLAT MODEL
  REMARK
                KSOL : 0.350747
BSOL : 21.401 (A**2)
  REMARK
          3
                BSOL
  REMARK
  REMARK
```

```
3 ESTIMATED COORDINATE ERROR.
REMARK
                                                (A) : 0.34
             ESD FROM LUZZATI PLOT
REMARK
                                                (A) : 0.33
              ESD FROM SIGMAA
REMARK
                                                (A) : 5.00
              LOW RESOLUTION CUTOFF
REMARK
          3
REMARK
          3
             CROSS-VALIDATED ESTIMATED COORDINATE ERROR.
REMARK
          3
                                               (A) : 0.45
              ESD FROM C-V LUZZATI PLOT
          3
REMARK
                                                (A) : 0.29
              ESD FROM C-V SIGMAA
REMARK
          3
REMARK
          3
             RMS DEVIATIONS FROM IDEAL VALUES.
REMARK
                                                (A) : 0.008
              BOND LENGTHS
REMARK
          3
                                         (DEGREES) : 1.1
              BOND ANGLES
          3
REMARK
                                         (DEGREES) : 18.9
              DIHEDRAL ANGLES
REMARK
                                         (DEGREES) : 0.73
              IMPROPER ANGLES
REMARK
          3
          3
REMARK
             ISOTROPIC THERMAL MODEL : RESTRAINED
REMARK
REMARK
          3
                                                                    SIGMA
          3 ISOTROPIC THERMAL FACTOR RESTRAINTS.
                                                           RMS
REMARK
                                                (A**2): 1.46; 1.50
              MAIN-CHAIN BOND
REMARK
          3
                                                (A**2) :
(A**2) :
                                                           2.54;
                                                                     2.00
              MAIN-CHAIN ANGLE
REMARK
          3
                                                           2.06;
                                                                     2.00
             SIDE-CHAIN BOND
REMARK
          3
                                                (A**2): 3.09; 2.50
             SIDE-CHAIN ANGLE
REMARK
REMARK
          3
             NCS MODEL : NONE
          3
REMARK
REMARK
                                                            RMS
          3 NCS RESTRAINTS.
REMARK
SIGMA/WEIGHT
                                                    (A) : NULL ; NULL
REMARK 3 GROUP 1 POSITIONAL REMARK 3 GROUP 1 B-FACTOR
                                                (A**2) : NULL ; NULL
REMARK
          3
          3 PARAMETER FILE 1 : MSI CNX_TOPPAR/protein_rep.param
REMARK
          3 PARAMETER FILE 2 : MSI_CNX_TOPPAR/water_rep.param
REMARK
REMARK 3 PARAMETER FILE 3 : ligands.par
REMARK 3 TOPOLOGY FILE 1 : MSI_CNX_TOPPAR/protein.top
REMARK 3 TOPOLOGY FILE 2 : MSI_CNX_TOPPAR/water.top
          3 TOPOLOGY FILE 3 : ligands.top
REMARK
REMARK
          3
          3 OTHER REFINEMENT REMARKS: NULL
REMARK
          1 A 261 PRO THR LEU VAL SER LEU LEU GLU VAL ILE GLU PRO GLU
          2 A 261 VAL LEU TYR ALA GLY TYR ASP SER SER VAL PRO ASP SER
3 A 261 THR TRP ARG ILE MET THR THR LEU ASN MET LEU GLY GLY
4 A 261 ARG GLN VAL ILE ALA ALA VAL LYS TRP ALA LYS ALA ILE
SEORES
SEQRES
SEQRES
SEORES
          5 A 261 PRO GLY PHE ARG ASN LEU HIS LEU ASP ASP GLN MET THR
          6 A 261 LEU LEU GLN TYR SER TRP MET SER LEU MET ALA PHE ALA
SEQRES
SEQRES
          7 A 261 LEU GLY TRP ARG SER TYR ARG GLN SER SER ALA ASN LEU
SEQRES 8 A 261 LEU CYS PHE ALA PRO ASP LEU ILE ILE ASN GLU GLN ARG SEQRES 9 A 261 MET THR LEU PRO ASP MET TYR ASP GLN CYS LYS HIS MET SEQRES 10 A 261 LEU TYR VAL SER SER GLU LEU HIS ARG LEU GLN VAL SER
SEORES
SEQRES 11 A 261 TYR GLU GLU TYR LEU CYS MET LYS THR LEU LEU LEU
                261 SER SER VAL PRO LYS ASP GLY LEU LYS SER GLN GLU LEU
                261 PHE ASP GLU ILE ARG MET THR TYR ILE LYS GLU LEU GLY
261 LYS ALA ILE VAL LYS ARG GLU GLY ASN SER SER GLN ASN
261 TRP GLN ARG PHE TYR GLN LEU THR LYS LEU LEU ASP SER
261 MET HIS GLU VAL VAL GLU ASN LEU LEU ASN TYR CYS PHE
SEQRES 12 A
SEQRES 13 A
SEQRES 14 A
SEQRES 15 A
SEQRES 16 A
SEQRES
         17 A 261 GLN THR PHE LEU ASP LYS THR MET SER ILE GLU PHE PRO
         18 A 261 GLU MET LEU ALA GLU ILE ILE THR ASN ASN ILE LYS LYS
SEQRES
SEQRES
         19 A 261 LEU LEU PHE HIS GLN 486 HXD HXD HXD HOH HOH HOH
SEQRES
39.120 90.00 90.00 90.00 P 21 21 2
           74.541 109.686
CRYST1
              1.000000 0.000000 0.000000
                                                        0.00000
ORIGX1
                                                        0.00000
              0.000000 1.000000 0.000000
ORIGX2
                                     1.000000
                                                        0.00000
              0.000000 0.000000
ORIGX3
                                     0.000000
                                                        0.00000
              0.013415
                         0.000000
 SCALE1
                                                        0.00000
              0.000000 0.009117 0.000000
 SCALE2
```

SCALE3	0.000000 0.000000	0.025562 0.00000	
_	1 CB PRO A 530	0 065 41.10/ -12.005 2.00	C C
MOTA	2 CG PRO A 530	-n 726 41.8// -13.940 1.00 000-	c
MOTA	3 C PRO A 530	2.373 41.506 -11.371 1.00 53 07	ō
ATOM ATOM	4 O PRO A 530	3.130 40.944 -12.772 1.00 55.71	N
ATOM	5 N PRO A 530	1.275 10.00 1 00 56 36	C
ATOM	6 CD PRO A 530	0.339 42./34 -14.070 1.00 54 71	C
ATOM	7 CA PRO A 530	1.0/4 42.101 1 00 11 03	N
ATOM	8 N THR A 531	2.022 41.333 10 000 1 00 48 81	С
ATOM	9 CA THR A 531	3.010 41.00%	С
ATOM	10 CB THR A 531	3.951 41.420 -7.836 1.00 48.07	0
ATOM	11 OG1 THR A 531	2.052 42 930 -8 470 1.00 47.66	C
MOTA	12 CG2 THR A 531 13 C THR A 531	3 696 39.483 -10.116 1.00 47.13	C
MOTA		2 623 38 940 -10.425 1.00 46.33	0
MOTA		4.788 38.799 -9.804 1.00 45.00	N C
ATOM	15 N LEU A 532 16 CA LEU A 532	4.786 37.345 -9.831 1.00 42.64	C
ATOM	17 CB LEU A 532	6.221 36.820 -9.834 1.00 42.31 6.321 35.352 -10.228 1.00 43.18	č
ATOM ATOM	18 CG LEU A 532	0.301 33.301 - 7.00 43 25	č
ATOM	19 CD1 LEU A 532	5.007 55.00 1 00 42 81	Č
MOTA	20 CD2 LEU A 532	7.803 33.03 2 650 1 00 41 18	С
ATOM	21 C LEU A 532	2.355 35.725 -8.806 1.00 40.72	0
MOTA	22 O LEU A 532	4 001 37 396 -7.496 1.00 39.79	N
MOTA	23 N VAL A 533 24 CA VAL A 533	3 365 36 893 -6.326 1.00 40.05	C
MOTA		3.807 37.598 -5.039 1.00 39.97	C
MOTA	25 CB VAL A 533 26 CG1 VAL A 533	5.085 36.975 -4.531 1.00 40.52	C
ATOM ATOM	27 CG2 VAL A 533	3.953 33.073 C 4C4 1 00 30 08	č
ATOM	28 C VAL A 533	1.000 5 070 1 00 37 55	Ō
MOTA	29 O VAL A 533	7 122 1 00 38 96	N
ATOM	30 N SER A 534	0.010 38 335 -7.336 1.00 39.75	С
ATOM	31 CA SER A 534	0.010 30.530 -8.027 1.00 40.51	С
MOTA	32 CB SER A 534 33 OG SER A 534	0 305 30 759 -9 301 1.00 41.31	0
MOTA		-0.539 37.188 -8.185 1.00 39.54	C
ATOM	34 C SER A 534 35 O SER A 534	-0.539 37.100 40.08 -1.627 36.678 -7.933 1.00 40.08 -231 36 770 -9.183 1.00 39.56	N
ATOM ATOM	36 N LEU A 535	0.231 30.73	Ĉ
ATOM	37 CA LEU A 535	-0.190 33.000 11 100 1 00 41 20	С
ATOM	38 CB LEU A 535	1 005 36 768 -11 991 1.00 43.98	С
MOTA	39 CG LEU A 535	2 035 36 437 -13.138 1.00 43.94	С
MOTA	40 CD1 LEU A 535	2.003 37 376 -12.518 1.00 43.10	C
ATOM	41 CD2 LEU A 535 42 C LEU A 535	0 202 34 402 -9 221 1.00 39.02	C
ATOM	·	-1.264 33.659 -9.338 1.00 39.90	O N
ATOM	43 O LEU A 535 44 N LEU A 536	0.714 34.147 -8.390 1.00 37.12	C
MOTA MOTA	45 CA LEU A 536	0.705 52.555	C
ATOM	46 CB LEU A 536	7 202 1 00 33 46	C
ATOM	47 CG LEU A 536	3.311 32.013	С
ATOM	48 CD1 LEU A 536	2 277 31 348 -8 020 1.00 34.15	С
MOTA	49 CD2 LEU A 536	0.537 32.922 -6.655 1.00 35.21	C
MOTA	50 C LEU A 536	-1.063 31.849 -6.358 1.00 33.62	0
ATOM	51 O LEU A 536 52 N GLU A 537	1 004 34 094 -6.231 1.00 34.84	N
MOTA	52 N GLU A 537 53 CA GLU A 537	-2.182 34.155 -5.379 1.00 35.83	· C
ATOM ATOM	53 CA GLU A 537	-2.396 35.562 -4.831 1.00 36.63	C
ATOM	55 CG GLU A 537	-3.303 33.002	Č
ATOM	56 CD GLU A 537	-3.703 37.00	0
ATOM	57 OE1 GLU A 537	4 050 37 392 -3 025 1.00 43.83	0
MOTA	58 OE2 GLU A 537	3 446 33 722 -6.106 1.00 35.89	C
MOTA	59 C GLU A 537	-4 244 32.945 -5.576 1.00 36.35	0
ATOM	60 O GLU A 537 61 N VAL A 538	-3.633 34.221 -7.322 1.00 34.25	N
MOTA		-4.820 33.869 -8.061 1.00 34.53	С
MOTA	62 CA VAL A 338		

ATOM	63	СВ	VAL A 538	-4.948	34.699	-9.375	1.00 36.03	C C
ATOM	64		VAL A 538	-4.662	36.168 34.161	-9.083 -10.449	1.00 36.24 1.00 36.46	C
ATOM	65		VAL A 538	-4.030 -4.887	34.161	-8.376	1.00 33.99	Č
ATOM	66	C	VAL A 538 VAL A 538	-5.965	31.790	-8.333	1.00 35.66	0
ATOM	67 68	O N	ILE A 539	-3.752	31.749	-8.675	1.00 32.13	N
ATOM ATOM	69	CA	ILE A 539	-3.776	30.325	-8.998	1.00 31.87	С
ATOM	70	CB	ILE A 539	-2.562	29.891	-9.861	1.00 32.38	C
ATOM	71		ILE A 539	-2.523	30.718		1.00 31.58	C
ATOM	72	CG1	ILE A 539	-1.264	30.003	-9.046	1.00 29.84 1.00 26.75	C
ATOM	73		ILE A 539	-0.029	29.484	-9.774 -7.761	1.00 20.75	Č
MOTA	74	C	ILE A 539	-3.812	29.439 28.230	-7.870	1.00 32.56	Ö
MOTA	75	0	ILE A 539	-4.004 -3.631	30.036	-6.588	1.00 31.90	N
ATOM	76 77	N CA	GLU A 540 GLU A 540	-3.654	29.274	-5.345	1.00 32.09	С
ATOM ATOM	78		GLU A 540	-3.430	30.213	-4.154	1.00 31.62	С
ATOM	79	CG	GLU A 540	-3.398	29.515	-2.802	1.00 31.44	C
ATOM	80	CD	GLU A 540	-2.309	28.454	-2.687	1.00 32.18	C
ATOM	81		GLU A 540	-2.357	27.677	-1.705	1.00 34.64 1.00 28.36	0
MOTA	. 82		GLU A 540	-1.410	28.396	-3.557 -5.220	1.00 28.30	č
MOTA	83	C	GLU A 540	-4.996 -6.064	28.534 29.143	-5.307	1.00 32.23	Ö
ATOM	84	0	GLU A 540 PRO A 541	-4.951	27.203	-5.024	1.00 32.48	N
ATOM	85 86	N CD	PRO A 541	-3.738	26.368	-4.958	1.00 32.78	С
MOTA MOTA	87	CA	PRO A 541	-6.150	26.367	-4.896	1.00 31.46	C
ATOM	88	CB	PRO A 541	-5.575	24.962	-4.690	1.00 30.60	C
ATOM	89	CG	PRO A 541	-4.268	25.015	-5.385	1.00 31.94	C
ATOM	90	С	PRO A 541	-7.109	26.745	-3.772	1.00 31.92 1.00 31.71	0
ATOM	91	0	PRO A 541	-6.715	27.265	-2.735 -4.001	1.00 34.35	Ŋ
ATOM	92	N	GLU A 542	-8.388 -9.407	26.484 26.735	-2.995	1.00 33.34	Ċ
ATOM	93	CA	GLU A 542 GLU A 542	-10.801	26.754	-3.636	1.00 35.18	C
ATOM	94 95	CB CG	GLU A 542	-11.230	28.120	-4.144	1.00 40.83	С
ATOM ATOM	96	CD	GLU A 542	-12.267	28.032	-5.248	1.00 44.57	C
ATOM	97		GLU A 542	-13.316	27.386	-5.033	1.00 47.56	0
ATOM	98	OE2	GLU A 542	-12.032	28.607	-6.333	1.00 47.08 1.00 31.02	o C
MOTA	99	С	GLU A 542	-9.283	25.557	-2.042	1.00 31.02	0
MOTA	100	0	GLU A 542	-8.798	24.489 25.756	-2.433 -0.798	1.00 20.04	. N
ATOM	101	N	VAL A 543	-9.704 -9.633	24.703	0.199	1.00 30.09	С
ATOM	102	CA CB	VAL A 543 VAL A 543	-9.753	25.279	1.624	1.00 29.86	С
ATOM ATOM	103 104		VAL A 543	-11.072	26.060	1.764	1.00 34.84	С
ATOM	105		VAL A 543	-9.680	24.155	2.639	1.00 28.98	C
ATOM	106	c	VAL A 543	-10.760	23.718	-0.054	1.00 29.81	C
MOTA	107	0	VAL A 543	-11.922	24.110	-0.144	1.00 33.37 1.00 28.80	O N
MOTA	108	N	LEU A 544		22.443	-0.185 -0.444	1.00 28.29	C
MOTA	109	CA	LEU A 544	-11.395 -10.739	21.394 20.231	-1.208	1.00 26.52	č
MOTA	110	CB	LEU A 544 LEU A 544	-10.739	20.520	-2.552	1.00 25.75	С
MOTA	111 112	CG CD1	LEU A 544	-9.540	19.212	-3.182	1.00 26.63	С
ATOM ATOM	113		LEU A 544	-11.064	21.175	-3.477	1.00 24.27	C
ATOM	114	C	LEU A 544	-11.983	20.856	0.854	1.00 27.42	C
ATOM	115	0	LEU A 544	-11.359	20.961	1.908	1.00 28.33	O N
ATOM	116	N	TYR A 545	-13.183	20.283	0.771	1.00 27.60 1.00 27.84	C
ATOM	117	CA	TYR A 545	-13.846	19.689	1.931 1.836	1.00 27.04	č
ATOM	118	CB	TYR A 545	-15.355 -15.838	19.868 21.220	2 292	1.00 30.17	č
ATOM	119		TYR A 545 TYR A 545	-16.343	21.399	3.581	1.00 29.47	С
ATOM	120 121	CDT	TYR A 545	-16.736	22.658	4.034	1.00 29.92	С
ATOM	121	CD3	TYR A 545	-15.740	22.335	1.458	1.00 28.88	C
MOTA MOTA	123		TYR A 545	-16.131	23.603	1.902	1.00 28.62	C
ATOM	124	CZ	TYR A 545	-16.624	23.756	3.192	1.00 29.32	C
ATOM	125	OH	TYR A 545	-16.988	25.000	3.655	1.00 28.97 1.00 28.67	O C
ATOM	126	С	TYR A 545	-13.526		1.944	1.00 28.67	. 0
ATOM	127	0	TYR A 545	-13.223		0.901 3.113	1.00 31.00	Ŋ
MOTA	128	N	ALA A 546	-13.600	11.577	5.115	2.00 20.00	

. .

	***	C D	DID D 546	-13.313	16.153	3.225	1.00 30.01	C
ATOM	129	CA	ALA A 546 ALA A 546	-12.777	15.836	4.607	1.00 28.48	С
ATOM	130	CB	ALA A 546	-14.540	15.294	2.944	1.00 33.68	С
ATOM	131	C	ALA A 546	-14.439	14.244	2.299	1.00 34.22	0
ATOM	132	0		-15.695	15.747	3.427	1.00 35.63	N
ATOM	133	N	GLY A 547	-16.922	14.999	3.238	1.00 38.13	С
ATOM	134	CA	GLY A 547	-17.131	14.122	4.454	1.00 42.00	С
MOTA	135	C	GLY A 547	-17.131	13.231	4.463	1.00 43.45	0
ATOM	136	0	GLY A 547	-16.340	14.389	5.490	1.00 44.22	N
ATOM	137	N	TYR A 548	-16.392	13.645	6.744	1.00 45.12	C
MOTA	138	CA	TYR A 548	-15.060	13.808	7.492	1.00 41.21	С
ATOM	139	CB	TYR A 548	-14.909	12.932	8.717	1.00 38.15	С
MOTA	140	CG	TYR A 548	-15.465	13.304	9.943	1.00 37.55	С
MOTA	141	CD1		-15.311	12.503	11.078	1.00 36.26	C
MOTA	142	CE1		-14.200	11.733	8.655	1.00 35.84	С
ATOM	143	CD2 CE2		-14.042	10.924	9.778	1.00 36.04	С
ATOM	144		TYR A 548	-14.597	11.315	10.992	1.00 36.31	С
ATOM	145	CZ	TYR A 548	-14.413	10.538	12.121	1.00 34.00	0
ATOM	146	OH	TYR A 548	-17.537	14.156	7.608	1.00 48.53	C
ATOM	147	C	TYR A 548	-17.638	15.362	7.871	1.00 49.58	0
ATOM	148	0 N	ASP A 549	-18.409	13.248	8.040	1.00 51.49	N
ATOM	149	N CA	ASP A 549	-19.520	13.653	8.888	1.00 54.98	C
ATOM	150 151	CB	ASP A 549	-20.853	13.108	8.361	1.00 57.65	C
ATOM	152	CG	ASP A 549	-22.055	13.875	8.917	1.00 59.27	C
MOTA	153		ASP A 549	-22.281	13.837	10.145	1.00 57.39	0
MOTA	154		ASP A 549	-22.770	14.526	8.122	1.00 62.37	0
ATOM	155	C	ASP A 549	-19.315	13.217	10.335	1.00 55.61	C
ATOM ATOM	156	ŏ	ASP A 549	-19.085	12.039	10.634	1.00 53.35	0
ATOM	157	N	SER A 550	-19.395	14.206	11.219	1.00 57.27	N
ATOM	158	CA	SER A 550	-19.227	14.024	12.650	1.00 58.87	C
ATOM	159	СВ	SER A 550	-19.162	15.397	13.314	1.00 58.42	
ATOM	160	OG	SER A 550	-20.270	16.189	12.923	1.00 56.75	O C
ATOM	161	C	SER A 550	-20.348	13.194	13.289	1.00 61.02	0
ATOM	162	ō	SER A 550	-20.299	12.892	14.485	1.00 61.52	Ŋ
ATOM	163	N	SER A 551	-21.353	12.831	12.495	1.00 62.10	C
ATOM	164	CA	SER A 551	-22.476	12.044	12.996	1.00 63.26 1.00 63.85	Ç.
ATOM	165	CB	SER A 551	-23.420	11.668	11.847	1.00 65.85	Ö
ATOM	166	OG	SER A 551	-22.747	10.933	10.836	1.00 63.82	č
ATOM	167	С	SER A 551	-21.960	10.786	13.683 14.915	1.00 63.02	ő
MOTA	168	0	SER A 551	-21.984	10.680	12.881	1.00 63.85	N
ATOM	169	N	VAL A 552	-21.494	9.834	13.416	1.00 63.41	Ċ
MOTA	170	.CA	VAL A 552	-20.952	8.592 7.585	12.290	1.00 64.14	С
ATOM	171	CB	VAL A 552	-20.630	6.289	12.884	1.00 64.09	С
MOTA	172	CG1	VAL A 552	-20.101	7.320	11.458	1.00 65.52	С
MOTA			VAL A 552	-21.879 -19.665	8.926	14.168	1.00 61.57	С
MOTA	174	С	VAL A 552	-18.848	9.728	13.703	1.00 61.73	0
ATOM	175	0	VAL A 552	-19.476		15.349	1.00 59.49	N
ATOM	176	N	PRO A 553	-20.368	7.354	16.014	1.00 59.31	С
MOTA	177	CD	PRO A 553	-18.279		16.157	1.00 57.83	С
MOTA	178	CA	PRO A 553	-18.399		17.267	1.00 59.00	C
ATOM	179	CB	PRO A 553 PRO A 553	-19.886		17.446	1.00 59.06	С
ATOM	180	CG	PRO A 553	-16.993		15.345	1.00 55.03	С
MOTA	181	C	PRO A 553	-16.949		14.361	1.00 54.34	0
ATOM	182	0	ASP A 554	-15.948		15.755	1.00 52.28	N
MOTA	183	N	ASP A 554	-14.679		15.046	1.00 50.09	С
MOTA	184	CA CB'	ASP A 554		.: 9.941	15.690	1.00 50.05	C
MOTA	185		ASP A 554	-13.965		15.566	1.00 51.10	C
MOTA	186	CG	ASP A 554	-14.499		14.504	1.00 53.34	0
ATOM	187	טט.	2 ASP A 554	-13.694		16.519	1.00 52.08	0
ATOM	188		ASP A 554	-14.153		15.003	1.00 47.37	C
ATOM	189	C	ASP A 554	-14.538		15.801	1.00 46.96	0
MOTA	190 191	O N	SER A 555	-13.258		14.061	1.00 45.53	N
MOTA		CA.	SER A 555	-12.653		13.878		C
MOTA	192 193	CB	SER A 555	-13.616		13.115	1.00 42.57	C.
MOTA	193	OG	SER A 555	-13.003			1.00 41.21	0
MOTA	174							

				44 570	c 207	13.071	1.00 43.51	С
ATOM	195	С	SER A 555	-11.378	6.287	-	1.00 44.45	ō
MOTA	196	0	SER A 555	-11.393	7.015	12.078	1.00 42.04	N
ATOM	197	N	THR A 556	-10.273	5.683	13.498	1.00 42.04	C
ATOM	198	CA	THR A 556	-9.032	5.841	12.762	1.00 42.19	č
ATOM	199	CB	THR A 556	-7.881	5.035	13.406	1.00 42.32	
ATOM	200	OG1		-7.516	5.646	14.651	1.00 42.04	0
ATOM	201		THR A 556	-6.659	5.006	12.499	1.00 41.12	C
ATOM	202	C	THR A 556	-9.293	5.367	11.337	1.00 42.74	C
	203	ŏ	THR A 556	-8.766	5.928	10.378	1.00 42.87	0
ATOM	203	N	TRP A 557	-10.144	4.354	11.204	1.00 43.45	N
ATOM			TRP A 557	-10.496	3.813	9.896	1.00 43.82	С
MOTA	205	CA	TRP A 557	-11.404	2,590	10.035	1.00 46.82	С
ATOM	206	CB	TRP A 557	-11.796	2.032	8.696	1.00 52.07	С
MOTA	207	CG		-12.973	2.357	7.936	1.00 53.78	С
ATOM	208	CD2		-12.874	1.674	6.699	1.00 54.50	С
MOTA	209	CE2	TRP A 557	-14.099	3.162	8.177	1.00 55.10	С
MOTA	210	CE3		-11.059	1.188	7.912	1.00 52.72	С
MOTA	211		TRP A 557	-	0.970	6.714	1.00 53.41	N
MOTA	212	NE1		-11.697	1.770	5.701	1.00 55.60	С
MOTA	213	CZ2		-13.860	3.260	7.183	1.00 56.65	С
ATOM	214	CZ3		-15.082	2.566	5.961	1.00 56.87	С
ATOM	215	CH2		-14.953		9.027	1.00 42.69	С
MOTA	216	С	TRP A 557	-11.217	4.843	7.889	1.00 42.73	Ō
ATOM	217	0	TRP A 557	-10.820	5.099		1.00 40.54	N
ATOM	218	N	ARG A 558	-12.289	5.422	9.558	1.00 39.82	Ĉ
ATOM	219	CA	ARG A 558	-13.050	6.398	8.798	1.00 33.82	č
MOTA	220	CB	ARG A 558	-14.308	6.803	9.567	1.00 41.33	č
ATOM	221	CG	ARG A 558	-14.995	5.631	10.230	1.00 47.40	č
ATOM	222	CD	ARG A 558	-16.424	5.936	10.670	1.00 47.40	N
ATOM	223	NE	ARG A 558	-16.569	7.212	11.370	1.00 48.33	Ċ
ATOM	224	CZ	ARG A 558	-16.818	8.370	10.763		N
MOTA	225	NH1	ARG A 558	-16.944	8.410	9.443	1.00 49.04	N
ATOM	226	NH2	ARG A 558	-16.965	9.483	11.476	1.00 49.31	C
ATOM	227	С	ARG A 558	-12.219	7.629	8.457	1.00 37.44	0
ATOM	228	0	ARG A 558	-12.325	8.157	7.358	1.00 37.53	
ATOM	229	N	ILE A 559	-11.395	8.084	9.397	1.00 35.98	N
ATOM	230	CA	ILE A 559	-10.550	9.256	9.176	1.00 34.05	C
ATOM	231	CB	ILE A 559	-9.832	9.695	10.468	1.00 33.19	C
ATOM	232	CG2		-8.828	10.805	10.153	1.00 30.68	
MOTA	233	CG1		-10.867	10.148	11.503	1.00 31.75	C
MOTA	234	CD1		-10.279	10.591	12.840	1.00 28.48	C
ATOM	235	C	ILE A 559	-9.497	9.019	8.093	1.00 33.57	C
ATOM	236	Ö	ILE A 559	-9.323	9.858	7.211	1.00 35.06	0
ATOM	237	N	MET A 560	-8.799	7.885	8.153	1.00 32.07	N
ATOM	238	CA	MET A 560	-7.775	7.568	7.151	1.00 31.33	C
ATOM	239	CB	MET A 560	-6.939	6.360	7.589	1.00 31.36	C
MOTA	240	CG	MET A 560	-6.173	6.558	8.888	1.00 32.80	C
ATOM	241	SD	MET A 560	-5.149	8.043	8.902	1.00 38.45	S
ATOM	242	CE	MET A 560	-4.032	7.699	7.487	1.00 31.35	C
ATOM	243	C	MET A 560	-8.392	7.282	5.782	1.00 29.65	C
ATOM	244	ō	MET A 560	-7.797	7.570	4.745	1.00 30.30	0
ATOM	245	N	THR A 561	-9.584	6.703	5.780	1.00 28.64	N
	246	CA	THR A 561	-10.269	6.408	4.533	1.00 29.01	C
ATOM	247	CB	THR A 561	-11.524	5.552	4.789	1.00 29.96	C
MOTA			THR A 561	-11.130	4.292	5.354	1.00 31.59	0
ATOM	248	CC	THR'A 561	-12.276	5.307	3.489	1.00 30.13	С
MOTA	249		THR A 561	-10.672	7.731	3.876	1.00 29.38	С
MOTA	250	C	"'THR A 561	-10.548		2.661 [.]	1.00 28.77	0
ATOM	251		THR A 562	-11.149	8.663	4.695	1.00 28.92	N
MOTA	252	N	THR A 562	-11.553	9.974	4.204	1.00 28.99	С
MOTA	253	CA	THR A 562	-12.219	10.831	5.319	1.00 30.42	С
ATOM	254	CB	1UK W 205	-13.428	10.196	5.758	1.00 28.64	0
MOTA	255		1 THR A 562	-12.547	12.230	4.794	1.00 29.72	С
MOTA	256	CG			10.708	3.691	1.00 27.30	С
ATOM	257	C	THR A 562	-10.323 -10.322	11.245	2.584	1.00 27.79	0
MOTA	258	0	THR A 562		10.722	4.499	1.00 26.13	N.
MOTA	259	N	LEU A 563	-9.273	11.395		1.00 25.78	С
MOTA	260	CA	LEU A 563	-8.048	11.333	3.200		

		-6.988 11.272 5.198 1.00 24.48 C	
ATOM	261 CB LEU A 563	7 107 12 198 6.405 1.00 21.88 C	
MOTA	262 CG LEU A 563	5 930 11 971 7.336 1.00 20.16 C	
MOTA	263 CD1 LEU A 563	7 123 13 639 5.926 1.00 23.50 C	
MOTA	264 CD2 LEU A 563	7.511 10.823 2.798 1.00 26.34 C	
MOTA	265 C LEU A 563	6 905 11 508 2.056 1.00 26.41	
MOTA	266 O LEU A 563	7 947 9 573 2.504 1.00 26.91 N	
MOTA	267 N ASN A 564	7 353 8 983 1.272 1.00 28.34 C	
MOTA	268 CA ASN A 564	7.551 7.472 1.288 1.00 30.39	
ATOM	269 CB ASN A 564	C 697 6 775 0.254 1.00 33.88 C	
MOTA	270 CG ASN A 564	7 044 6 704 -0.930 1.00 31.52	
MOTA	271 OD1 ASN A 564	5 522 6 277 0 692 1.00 35.10 N	
MOTA	272 ND2 ASN A 564	0.022 9.603 0.047 1.00 27.58	
ATOM	273 C ASN A 564	7.360 9.887 -0.958 1.00 26.59 C	
MOTA	274 O ASN A 564	0.330 9.832 0.143 1.00 28.68	
ATOM	275 N MET A 565	10.005 10.442 -0.950 1.00 29.27	
ATOM	276 CA MET A 565	11 505 10 350 -0.697 1.00 33.18	
MOTA	277 CB MET A 565	12 110 8 932 -0.554 1.00 39.91	
MOTA	278 CG MET A 565	13 465 7 848 -1.856 1.00 49.04	3
MOTA	279 SD MET A 565	12 012 7 010 -3 109 1.00 46.85	2
ATOM	280 CE MET A 565	0.705 11 908 -1.095 1.00 27.69	2
MOTA	281 C MET A 565	0 655 12 430 -2 206 1.00 28.50	2
MOTA	282 O MET A 565	0.440 12.567 0.033 1.00 25.16	N
MOTA	283 N LEU A 566	0.073 13 976 0.033 1.00 21.88	C
ATOM	284 CA LEU A 566	0.150 14.550 1.453 1.00 21.24	C
MOTA	285 CB LEU A 566 286 CG LEU A 566	0.045 16.046 1.609 1.00 20.33	С
MOTA		0.021 16.868 0.789 1.00 17.51	C
MOTA		-8.901 16.437 3.084 1.00 17.99	C
ATOM		-7.674 14.179 -0.522 1.00 20.32	C
MOTA		-7 433 15.120 -1.278 1.00 20.01	0
MOTA	7 7 77	-6.752 13.298 -0.143 1.00 18.99	И С
ATOM		-5.388 13.403 -0.034 2.00	C
ATOM		-5.376 13.175 -2.132 1.00	0
MOTA	293 C GLY A 567 294 O GLY A 567	-4.613 13./91 -2.8// 1.00 13.70	N
ATOM	295 N GLY A 568	-6.236 12.278 -2.360 1.00 10.75	C
MOTA	296 CA GLY A 568	-6.299 12.030 -4.003 1.00 21 97	č
MOTA MOTA	297 C GLY A 568	-6.747 13.290 -4.724 1.00 -0.00	ō
ATOM	298 O GLY A 568	-6.142 13.693 -3.724 1.00 20 50	N
ATOM	299 N ARG A 569	-7.806 13.922 -4.221 1.00 20 17	C
ATOM	300 CA ARG A 569	-8.318 15.120 -4.030 1.00 20 02	C
ATOM	301 CB ARG A 569	-9.660 I5.516 -4.250 I. 00 00 33	С
ATOM	.302 CG ARG A 569	-10.770 14.494 -4.400 1.00 17 41	С
ATOM	303 CD ARG A 569	-11.931 14.000	N
MOTA	304 NE ARG A 569	-12.300 10.022	С
ATOM	305 CZ ARG A 569	-12.000 10.712 - 1 00 17 50	N
ATOM	306 NH1 ARG A 569	2 7 7 1 0 7 7 2 1 00 20 21	N
ATOM	307 NH2 ARG A 569	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	С
MOTA	308 C ARG A 569	7 220 17 126 -5.610 1.00 25.40	0
MOTA	309 O ARG A 569	C 549 16 295 -3.647 1.00 22.17	N
ATOM	310 N GLN A 570	5 569 17 364 -3.467 1.00 22.80	С
ATOM	311 CA GLN A 570	5 020 17 361 -2.045 1.00 21.90	С
MOTA	312 CB GLN A 570	6 001 17 673 -1.007 1.00 24.69	С
MOTA	313 CG GLN A 570	5 476 18 192 0.279 1.00 25.51	С
MOTA	314 CD GLN A 570	6 101 18 570 1.209 1.00 26.69	0
ATOM '	315 OE1 GLN A 570	-4 148 18.223 0.335 1.00 24.08	N
MOTA	316_ NE2 GLN A 570	4:411 17 282 : 4.455 1.00 23.72	Ç
MOTA	317 C GLN A 570	3 075 18 318 -4.880 1.00 23.31	0
MOTA	318 O GLN A 570	4 021 16 055 -4.806 1.00 22.62	N
MOTA	319 N VAL A 571	2 946 15 843 -5.763 1.00 22.08	С
ATOM	320 CA VAL A 571	2.661 14.324 -5.945 1.00 22.90	C
MOTA	321 CB VAL A 571 322 CG1 VAL A 571	-1 680 14.101 -7.067 1.00 20.84	C
MOTA	J	-2.094 13.744 -4.651 1.00 21.94	C
ATOM	+ 7	2.304 16 477 -7.083 1.00 22.98	C
ATOM	7 571	2 607 17 334 -7.646 1.00 23.56	0
MOTA	7 550	-4.570 16.077 -7.562 1.00 22.87	N
MOTA	326 N ILE A 5/2		

7.001	327	CA	ILE A 572		-5.109	16.631 -8.8		1.00 23.54	C
ATOM ATOM	328	CB	ILE A 572		-6.571	16.164 -9.0		1.00 25.60	C
ATOM	329	CG2	ILE A 572		-7.212	17.028 -10.1		1.00 23.10	C C
ATOM	330		ILE A 572		-6.598	14.698 -9.5		1.00 25.53 1.00 28.80	Č
ATOM	331		ILE A 572		-5.914	13.765 -8.5		1.00 23.17	C
ATOM	332	С	ILE A 572		-5.091	18.157 -8.7		1.00 25.17	ŏ
ATOM	333	0	ILE A 572		-4.760	18.810 -9.7 18.731 -7.6		1.00 21.88	N
ATOM	334		ALA A 573		-5.444	18.731 -7.6 20.179 -7.4		1.00 20.37	С
MOTA	335		ALA A 573		-5.445 -6.173	20.594 -6.2		1.00 18.79	С
MOTA	336		ALA A 573		-4.018	20.723 -7.4		1.00 20.64	С
ATOM	337	C	ALA A 573 ALA A 573		-3.780	21.857 -7.8		1.00 20.41	0
MOTA	338	O N	ALA A 574		-3.069	19.918 -7.0	09	1.00 20.63	Ŋ
MOTA	339 340	CA	ALA A 574		-1.674	20.347 -6.9		1.00 22.06	C
ATOM ATOM	341	CB	ALA A 574		-0.859	19.428 -6.0		1.00 21.71	C C
ATOM	342	C	ALA A 574		-1.096	20.341 -8.3		1.00 22.27	0
ATOM	343	0	ALA A 574		-0.229	21.153 -8.7		1.00 22.45 1.00 21.27	N
ATOM	344	N	VAL A 575		-1.580	19.409 -9.2 19.273 -10.5		1.00 22.34	Ċ
MOTA	345	CA	VAL A 575		-1.145	17.950 -11.2	210	1.00 24.69	C
ATOM	346	CB	VAL A 575		-1.695 -1.378	17.899 -12.6	686	1.00 21.88	С
ATOM	347	CGI	VAL A 575		-1.092	16.708 -10.4	184	1.00 24.59	С
ATOM	348		VAL A 575 VAL A 575		-1.697	20.464 -11.3	360	1.00 25.30	C
ATOM	349 350	C O	VAL A 575		-0.996	21.094 -12.1	163	1.00 24.89	0
ATOM ATOM	351	N	LYS A 576		-2.964	20.777 -11.1	108	1.00 26.15	N
ATOM	352	CA	LYS A 576		-3.628	21.883 -11.7	778	1.00 26.08	C C
ATOM	353	CB	LYS A 576		-5.100	21.892 -11.3	362	1.00 29.82 1.00 35.73	c
ATOM	354	CG	LYS A 576		-5.936	23.016 -11.9	932 420	1.00 33.73	č
ATOM	355	CD	LYS A 576		-6.131	22.864 -13.4 23.840 -13.9	43U 931	1.00 43.06	č
ATOM	356	CE	LYS A 576		-7.184	23.729 -13.1	105	1.00 44.70	N
MOTA	357	ΝZ	LYS A 576		-8.423 -2.927	23.198 -11.4	414	1.00 25.77	С
ATOM	358	С	LYS A 576 LYS A 576		-2.708	24.068 -12.2	268	1.00 26.93	0
ATOM	359 360	O N	TRP A 577		-2.561	23.326 -10.3	142	1.00 23.23	N
ATOM ATOM	361	CA	TRP A 577		-1.875	24.510 -9.0		1.00 21.37	C
ATOM	362	CB	TRP A 577		-1.746	24.411 -8.		1.00 18.79	C
ATOM	363	CG	TRP A 577		-0.719	25.321 -7.5		1.00 19.34 1.00 17.94	C
ATOM	364	CD2			0.625	24.968 -7.3 26.142 -6.9		1.00 17.94	č
MOTA	365	CE2			1.243	26.142 -6.0 23.779 -7.3		1.00 15.69	Č
ATOM	366	CE3			1.366 -0.856	26.657 -7.3		1.00 18.48	С
ATOM	367	CD1	TRP A 577 TRP A 577		0.320	27.157 -6.		1.00 17.97	N
ATOM	368	NE1 CZ2			2.573	26.156 -6.		1.00 16.37	C
ATOM	369 370	CZ3			2.686	23.796 -6.		1.00 17.86	C
ATOM ATOM	371	CH2			3.274	24.976 -6.	275	1.00 15.83	C C
ATOM	372	C	TRP A 577		-0.491	24.626 -10.	270	1.00 23.06 1.00 21.69	0
MOTA	373	0	TRP A 577		-0.118	25.683 -10.	306	1.00 24.00	Ŋ
MOTA	374	N	ALA A 578		0.264	23.531 -10. 23.482 -10.	762	1.00 24.36	C
MOTA	375	CA	ALA A 578		1.611	22.096 -10.	571	1.00 23.59	С
MOTA	376	CB	ALA A 578		2.189 1.622	23.867 -12.	245	1.00 26.21	С
ATOM	377	C	ALA A 578 ALA A 578		2.414	24.720 -12.		1.00 24.47	0
MOTA	378 379	O N	LYS A 579		0.734	23.239 -13.	020	1.00 28.56	N
MOTA ATOM	380	CA	LYS A 579		0.605	23.491 -14.	459	1.00 29.95	C
ATOM	381	CB	LYS A 579		-0.625	22.769 -15.	029	1.00 32.43	C
ATOM	382	CG	LYS A 579		-0.514	21.242 -15.		1.00 35.06 1.00 38.17	
ATOM 67	383	CD	LYS A 579	Ü	0.473	20.833 -16.		1.00 40.07	Ċ
ATOM	384	CE	LYS A 579		0.491	19.323 -16. 18.793 -16.	942	1.00 40.07	Ň
ATOM	385	NZ	LYS A 579		-0.806	18.793 -16. 24.974 -14.	789	1.00 30.72	Ċ
ATOM	386	C	LYS A 579		0.485 0.934	25.412 -15.		1.00 32.12	0
MOTA	387	0	LYS A 579		-0.115	25.751 -13.		1.00 30.95	N
ATOM	388	N CA	ALA A 580 ALA A 580		-0.279	27.181 -14.	144	1.00 29.86	C
MOTA	389 390	CA CB	ALA A 580		-1.630	27.656 -13.	602	1.00 28.78	C
ATOM ATOM	390	C	ALA A 580		0.842	28.045 -13.	573	1.00 29.74	C
ATOM	392	Ö	ALA A 580		0.747	29.270 -13.	596	1.00 30.94	0
HI OH		-							

		1.901 27.424 -13.063 1.00 28.55	N C
MOTA	393 N ILE A 581 394 CA ILE A 581	3 008 28.195 -12.508 1.00 27.50	C
MOTA	n n col	3.940 27.339 -11.606 1.00 27.32	С
MOTA	396 CG2 ILE A 581	5.1/4 20.101 -10 331 1.00 25.65	С
ATOM ATOM	397 CG1 ILE A 581	3.219 20.001 -9 288 1.00 26.32	C
MOTA	398 CD1 ILE A 581	3.045 27.303 -13 613 1.00 29.17	C
MOTA	399 C ILE A 581	4 497 28 070 -14.402 1.00 28.76	O N
MOTA	400 O ILE A 581 401 N PRO A 582	3 947 30.128 -13.680 1.00 29.50	C
MOTA	DDA B E02	3.314 31.083 -12.751 1.00 29.20	Č
ATOM	402 CD PRO A 582 403 CA PRO A 582	4.757 30.820 -14.687 1.00 29.68	С
ATOM ATOM	404 CB PRO A 582	4.789 32.233 13.481 1.00 29.84	C
ATOM	405 CG PRO A 582	3.458 32.331 23.724 1.00 29.77	C
ATOM	406 C PRO A 582	6 721 29,900 -13.675 1.00 20.10	N
MOTA	407 O PRO A 582 408 N GLY A 583	6 691 29 994 -15.923 1.00 31.70	Ċ,
ATOM	7 503	8.017 29.398 -16.045 1.00 35.09	C
ATOM	410 C GLY A 583	7.981 27.077 17.030 1.00 36.64	0
ATOM ATOM	411 O GLY A 583	8.330 27.223 -14 929 1.00 35.06	N
ATOM	112 N PHE A 584	7.540 27.510 1.00 34.81	C
MOTA	413 CA PHE A 584	6 800 25.563 -13.405 1.00 33.54	C C
MOTA	414 CB PHE A 584 415 CG PHE A 584	6 433 24 118 -13.200 1.00 31.33	Č
MOTA	7 504	7.342 23.224 -12.643 1.00 31.80	С
MOTA MOTA	417 CD2 PHE A 584	5.156 23.000 12.00 31.19	С
ATOM	418 CE1 PHE A 584	6.982 21.901 13.274 1.00 30.92	C C
ATOM	419 CE2 PHE A 584	5 697 21 464 -12.709 1.00 31.33	c
MOTA	420 CZ PHE A 584 421 C PHE A 584	6 528 25.309 -15.875 1.00 35.43	Ö
ATOM	421 C PHE A 584 422 O PHE A 584	6.824 24.200 1 00 36.88	N
MOTA	423 N ARG A 585	5.446 20.010 -17 219 1.00 39.05	С
MOTA MOTA	124 CA ARG A 585	4.501 25.500 -17 319 1.00 40.69	C ·
ATOM	425 CB ARG A 585	3 703 27.999 -17.630 1.00 44.00	C C
MOTA	426 CG ARG A 585 427 CD ARG A 585	2 457 28 872 -17.760 1.00 47.73	N
ATOM	427 CD ARG A 585 428 NE ARG A 585	1.55/ 20.553 10.005 1.00.52.79	C
ATOM ATOM	429 CZ ARG A 585	0.362 20.304 18 388 1.00 53.76	N
ATOM	430 NH1 ARG A 585	-0.096 29.396 -20.056 1.00 53.73	N C
MOTA	431 NH2 ARG A 585	5 112 25.371 -18.614 1.00 38.00	0
ATOM	432 C ARG A 585 433 O ARG A 585	4 563 24.637 -19.448 1.00 33.5.	N
ATOM	433 O ARG A 585 434 N ASN A 586	6.250 20.017 20.142 1.00 38.28	C
ATOM ATOM	435 CA ASN A 586	6.936 23.379 -20 425 1.00 38.83	C
ATOM	436 CB ASN A 586	6 664 28.448 -20.564 1.00 39.20	C
ATOM	437 CG ASN A 586	7 000 29 585 -20.223 1.00 39.24	И
ATOM	438 OD1 ASN A 586 439 ND2 ASN A 586	5.461 28.175 -21.079 1.00 38.85	Ċ
MOTA	440 C ASN A 586	7.949 24.600 -21 247 1.00 40.05	0
MOTA MOTA	441 O ASN A 586	8.500 24.002 -19 104 1.00 38.19	N
ATOM	442 N LEU A 587	9 037 22.974 -19.053 1.00 35.55	c c
MOTA	443 CA LEU A 587 444 CB LEU A 587	9 343 22.594 -17.605 1.00 30.30	č
MOTA	444 CB LEU A 587 445 CG LEU A 587	10.244 23.00 1 00 36 40	С
MOTA MOTA	446 CD1 LEU A 587	10.247 23.513 -17 353 1.00 36.25	C
ATOM	447 CD2 LEU A 587	9 360 21.801 -19.748 1.00 35.11	C
MOTA	448 C LEU A 587	7 130-921.725 -19.812 1.00 3316	O N
ATOM	449 O' LEU A 567	9.167 20.889 -20.275 1.00 30.67	Ĉ
ATOM	451 CA HIS A 588	8.642 10.840 -21.435 1.00 31.28	C
ATOM ATOM	452 CB HIS A 588	9.803 17.748 -22 371 1.00 31.81	C
ATOM	453 CG HIS A 588	9.385 17.690 -23.725 1.00 30.94	C N
ATOM	454 CD2 HIS A 500	9 870 16.548 -21.934 1.00 31.37	C
ATOM	OD1 UTC A 588	8.564 15.798 -22.979 1.00 32.13	N
ATOM ATOM	457 NE2 HIS A 588	8.800 10.072 1 00 29.79	С
ATOM	f ico a uta a 588	7.766 18.957 -19.972 1.00 25	

•				_		0.006	18.893 -18.785 1.00 30.89 0	
MOTA	459	0	HIS	A	588	8.086	18.381 -20.457 1.00 28.76 N	
MOTA	460	N	LEU	A	589	6.668	17.628 -19.592 1.00 27.43 C	
MOTA	461	CA	LEU	Α	589	5.761	17.020 19.332 2000	
ATOM	462		LEU			4.716	10.075 20.415	
ATOM	463	CG	LEU	Α	589	3.290	17.434 20.343 200	
ATOM	464	CD1	LEU	Α	589 .	2.766	17.300 10.313 =	
MOTA	465	CD2	LEU	Α	589	3.288	10,057 20:001 =	
ATOM	466		LEU			6.487	10.037 10.035 2.00	
ATOM	467	Ö	LEU	A	589	6.206	16.555 -17.516 1.00 26.21 O	
	468	N	ASP	Α	590	7.417	15.878 -19.264 1.00 27.79 N	
MOTA	469		ASP			8.163	14.912 -18.468 1.00 28.63 C	
ATOM		CB	ASP			9.227	14 205 -19.310 1.00 28.13 C	
ATOM	470		ASP			8.645	13.127 -20.190 1.00 31.35 C	
ATOM	471	CG OD1				7.678	12.452 -19.751 1.00 33.05 O	
ATOM	472	OD1	MOL	7	500	9.167	12.945 -21.312 1.00 32.29	
MOTA	473		ASP	W.	500	8.830	15 541 -17.253 1.00 28.09 C	
ATOM	474	C	ASP			8.856	14 938 -16.182 1.00 29.48 O	
MOTA	475	0	ASP	A	590	9.374	16 745 -17 418 1.00 26.75 N	
MOTA	476	N	ASP	A	237	10.039	17 /33 -16 313 1.00 26.10 C	
MOTA	477	CA			591		18.601 -16.832 1.00 25.04 C	
ATOM	478	CB	ASP	Α	591	10.879	18.159 -17.437 1.00 25.45 C	
MOTA	479	CG	ASP			12.197	16.936 -17.524 1.00 25.61 O	
ATOM	480	OD1	ASP	A	591	12.464	19.056 -17.826 1.00 25.71	
ATOM	481	OD2	ASP	Α	591	12.974	17.951 -15.284 1.00 26.07 C	
MOTA	482	С			591	9.036	17.901 -15.204 2.00	
MOTA	483	0			591	9.348	18.066 -14.101 1.00 2011	
MOTA	484	N	GLN	Α	592	7.837	18.264 -15.745 1.00	
MOTA	485	CA	GLN	Α	592	6.803	10.770 14.000	
ATOM	486	CB	GLN	Α	592	5.658	19.302 15.003 2.00	
MOTA	487	CG	GLN	Α	592	6.028	20.039 -10.577	
MOTA	488	CD	GLN	Α	592	4.841	21.300 -17.073 2.00	
ATOM	489	OE1	GLN	Α	592	3.791		
ATOM	490	NE2	GLN	Α	592	5.013	21.634 -10.333 1.00	
ATOM	491	C	GLN	Α	592	6.285	17.629 -13.555 1.00 2001-	
ATOM	492	ō	GLN	Α	592	6.115	17.775 -12.772 1.00 20.00	
ATOM	493	Ň			593	6.047	16.489 -14.050 1.00 25.1-	
ATOM	494	CA	MET	Α	593	5.548	15.296 -13.962 1.00 24.08 C	
	495	CB			593	5.202	14.222 -14.992 1.00 23.80 C	
MOTA	496	CG	MET	A	593	4.003	14.570 -15.849 1.00 24.95 C	
MOTA	497	SD			593	2.531	14.931 -14.838 1.00 29.41 S	
MOTA	498	CE			593	2.470	16.722 -14.955 1.00 28.41 C	
MOTA	499	C			593	6.558	14.747 -12.961 1.00 24.06 C	
MOTA		Ö			593	6.181	14.157 -11.947 1.00 22.92	
ATOM	500	N	THE	Δ	594	7.841	14.950 -13.259 1.00 24.52 N	
ATOM	501				594	8.931	14.495 -12.401 1.00 25.08 C	
ATOM	502	CA			594	10.298	14.606 -13.132 1.00 26.55 C	
MOTA	503	CB			594	10.320	13.685 -14.226 1.00 26.87 O	
MOTA	504	OG1			594	11.468	14.302 -12.177 1.00 24.40 C	
MOTA	505		TUL		594	8.979	15.323 -11.120 1.00 25.46 C	
MOTA	506	C	TUL		594	8.960	14.772 -10.020 1.00 25.68 U	
MOTA	507	0	Ink		. JJ4	9.036	16.644 -11.272 1.00 24.93 N	
MOTA	508	N			595	9.081	17.557 -10.134 1.00 25.45 C	
MOTA	509	CA	LEU	A	595	9.168	19.007 -10.630 1.00 22.72 C	
MOTA	510	CB			595		19.324 -11.570 1.00 19.93 C	
MOTA	511	CG			595	10.338	20.745 -12.133 1.00 17.88 C	
MOTA	512				595	10.218	19.144 -10.814 1.00 15.94 C	
MOTA	513	CD2	LEU	ΙΑ	595	11.630	19.144 10.011	
MOTA	514	Ç			595	7.848	17.304 3.233 1.00	
·ATOM	515	Ó			595	7.949	T. I.O	•
ATOM	516	N			596	6.690		
MOTA	517	CA			596	5.454	10.547 5.051 2.00	
ATOM	518	CB			596	4.249	17.055 10.051 2.00	
MOTA	519	CG			596	3.845	10.474 10.115	
MOTA	520				596	2.821	10.427 11.500 1.00 04 05	
ATOM	521	CD2	LEC	J A	596	3.276	13.204 3.223 2.00 25 76	
ATOM	522				A 596	5.484	13.374 -0.411 1.00 03 66	
ATOM	523				596	4.963	15.352 -7.312 1.00 25.77	
MOTA	524	Ň			597	6.098	14.604 -9.072 1.00 26.73 N	
PION		٠.		-				

	n 507	6.212 13.274 -8.491 1.00 27.83 6.212 13.274 -9.473 1.00 28.94	C C
MOTA	525 CA GLN A 597 526 CB GLN A 597	6.885 12.319 -9.473 1.00 23.49	С
MOTA	527 CG GLN A 597	6.850 10.007	C
MOTA MOTA	528 CD GLN A 597	7.029 10.129 -11.087 1.00 38.65	N O
ATOM	529 OE1 GLN A 597	9 525 9 140 -9.197 1.00 30.05	C
ATOM	530 NE2 GLN A 597	7.061 13.362 -7.220 1.00 25.05	ō
MOTA	531 C GLN A 597 532 O GLN A 597	6.809 12.661 -6.245 1.00 24.14	N
ATOM		8.059 14.237 6 106 1.00 24.05	С
MOTA	534 CA TYR A 598	8.961 14.412 6.577 1.00 24.63	C
ATOM ATOM	535 CB TYR A 598	11.086 13.900 -7.447 1.00 26.03	C C
ATOM	ERE CG TYR A 598	12.243 14.284 -8.129 1.00 27.33	c
ATOM	537 CD1 TYR A 598 538 CE1 TYR A 598	12.926 13.377 -8.955 1.00 20.73	С
ATOM	538 CE1 TYR A 598 539 CD2 TYR A 598	10.628 12.532 -8 413 1.00 26.80	C
MOTA	540 CE2 TYR A 598	11.293 11.001 -9 088 1.00 29.01	C
ATOM ATOM	541 CZ TYR A 598	13.054 11.174 -9.910 1.00 33.28	o C
ATOM	542 OH TYR A 598	8.489 15.420 -5.077 1.00 22.05	Ö
MOTA	543 C TYR A 598 544 O TYR A 598	9.074 15.509 -4.006 1.00 25.50	N
ATOM	544 O TYR A 596 545 N SER A 599	7.440 10.174 4 435 1.00 19.00	C
MOTA MOTA	546 CA SER A 599	7.022 17.131 1 985 1.00 20.03	C O
ATOM	547 CB SER A 599	6 588 18.912 -6.059 1.00 19.55	C
ATOM	548 OG SER A 599 549 C SER A 599	5.561 17.267 -4.000 1.00 19.38	ō
MOTA	549 C SER A 599 550 O SER A 599	5.242 10.000 -4 557 1.00 15.40	N
ATOM ATOM	551 N TRP A 600	4.6/1 16.445 1.00 17.13	C
ATOM	552 CA TRP A 600	2 376 15.562 -4.897 1.00 17.27	C
MOTA	553 CB TRP A 600 554 CG TRP A 600	2.623 14.118 -4.605 1.00 19.51	Ċ
ATOM	554 CG TRP A 600 555 CD2 TRP A 600	2.079 13.300 3.649 1.00 20.31	C
ATOM ATOM	556 CE2 TRP A 600	2.561 12.041 3 450 1.00 20.20	C C
ATOM	557 CE3 TRP A 600	3 395 13 255 -5.326 1.00 16.67	N
ATOM	558 CD1 TRP A 600 559 NE1 TRP A 600	3.364 12.007 -4.758 1.00 13.00	C
ATOM	559 NE1 TRP A 600 560 CZ2 TRP A 600	2.217 11.021 -2.744 1.00 18.94	С
MOTA MOTA	561 CZ3 TRP A 600	0.882 12.033 1.705 1.00 20.70	C C
ATOM	562 CH2 TRP A 600	2 047 16.450 -2.633 1.00 13.20	0
MOTA	563 C TRP A 600 564 O TRP A 600	2.249 17.212 -2.063 1.00 17.50	N
ATOM	564 O TRP A 600 565 N MET A 601	3.746 13.323 20.532 1.00 17.71	C.
ATOM ATOM	566 CA MET A 601	3.598 13.334 -0.051 1.00 16.60	C C
ATOM	567 CB MET A 601	4.215 13.788 1.415 1.00 17.40	s
MOTA	568 CG MET A 601 569 SD MET A 601	2.492 13.436 1.886 1.00 15.02	C
ATOM	569 SD MET A 601 570 CE MET A 601	2.394 11.073 0 189 1.00 17.89	C
ATOM ATOM	571 C MET A 601	4.061 10.024 1.071 1.00 17.68	O N
MOTA	572 O MET A 601	5.229 17.118 -0.207 1.00 16.80	Č
MOTA	573 N SER A 602 574 CA SER A 602	5.806 18.323 0.376 1.00 17.10	C
MOTA	575 CB SER A 602	7.131 10.030 0.303 1.00 20.10	0
MOTA MOTA	576 OG SER A 602	7.847 19.509 0.250 1.00 15.33	C 0
ATOM	577 C SER A 602	4.579 20.226 1.221 1.00 10.45	N
ATOM	578 O SER A 602 579 N LEU A 603	4.288 19.708 -0.943 1.00 14.55	С
MOTA	580 CA LEU A 603	3.347 20.750 2 688 1 00 11.71	C .
MOTA MOTA	581 CB LEU A 603	2.983 20.042 3 689 1.00 12.50	C
ATOM	582 CG LEU A 603	3.637 20.799 -5.109 1.00 15.59	Č
MOTA		4.556 22.569 -3.590 1.00 16.48	С
MOTA	585 C LEU A 603	2.066 20.040 0 212 1.00 16.14	0
MOTA MOTA	586 O LEU A 603	1.571 21.013 -0.308 1.00 16.26	N C
ATOM	587 N MET A 604	0.312 19.193 0.456 1.00 18.52	c
ATOM	588 CA MET A 604	-0.275 17.815 0.137 1.00 21.33	С
ATOM	FOO CC MET A 604	-1.153 17.839 -1.113 1.00 21.33	
ATOM	, —		

					- 246	16 050	-1.969	1.00 24.51	S
ATOM	591	SD	MET A	604	-1.346	16.258		1.00 20.51	Ċ
MOTA	592	CE	MET A	604	-2.048	15.250	-0.626		Ċ
MOTA	593	С	MET A	604	0.512	19.371	1.959	1.00 19.09	
ATOM	594	ō	MET A		-0.376	19.884	2.647	1.00 17.52	0
	595	N	ALA A		1.681	18.966	2.455	1.00 18.28	N
MOTA			ALA A		2.009	19.107	3.875	1.00 16.81	С
ATOM	596	CA			3.265	18.332	4.206	1.00 14.60	С
MOTA	597	CB	ALA A			20.579	4.220	1.00 17.64	С
MOTA	598	С	ALA A		2.219		5.320	1.00 15.68	0
ATOM	599	0	ALA A	605	1.866	21.031		1.00 17.60	N
ATOM	600	N	PHE A	606	2.802	21.316	3.271		Ċ
ATOM	601	CA	PHE A	606	3.076	22.732	3.460	1.00 14.90	
ATOM	602	СВ	PHE A	606	3.965	23.259	2.340	1.00 14.99	C
	603	CG	PHE A		4.654	24.542	2.685	1.00 15.85	C
ATOM					5.607	24.573	3.698	1.00 15.60	С
ATOM	604	CD1	PHE A		4.319	25.732	2.041	1.00 17.41	С
ATOM	605				6.215	25.764	4.070	1.00 13.51	С
MOTA	606		PHE A			26.941	2.411	1.00 14.18	С
ATOM	607		PHE A		4.927	26.951	3.424	1.00 14.61	С
ATOM	608	CZ	PHE A		5.872		3.521	1.00 14.99	С
ATOM	609	С	PHE A	606	1.787	23.557		1.00 14.33	ō
ATOM	610	0	PHE A	606	1.651	24.429	4.379		Ŋ
ATOM	611	N	ALA A	607	0.850	23.288	2.609	1.00 14.14	Č
ATOM	612	CA	ALA A		-0.433	24.003	2.572	1.00 12.28	
ATOM	613	CB	ALA A		-1.251	23.581	1.339	1.00 7.48	C
		C	ALA A		-1.217	23.692	3.841	1.00 12.83	C
ATOM	614		ALA A		-1.844	24.583	4.436	1.00 12.84	0
MOTA	615	0			-1.196	22.417	4.236	1.00 13.10	N
MOTA	616	N	LEU A		-1.883	21.968	5.435	1.00 13.47	С
ATOM	617	CA	LEU A			20.464	5.635	1.00 13.37	С
ATOM	618	CB	LEU A		-1.674		6.978	1.00 12.59	С
ATOM	619	CG	LEU A	608	-2.059	19.827	7.304	1.00 12.66	С
MOTA	620		LEU A		-3.505	20.155	6.913	1.00 7.59	Ċ
MOTA	621	CD2	LEU A		-1.840	18.315		1.00 7.33	Č
ATOM	622	С	LEU A	608	-1.299	22.761	6.605	1.00 15.21	Ö
MOTA	623	O	LEU A		-2.042	23.288	7.440	1.00 15.56	
MOTA	624	N	GLY A	609	0.031	22.864	6.630	1.00 14.81	N
ATOM	625	CA	GLY A	609	0.706	23.609	7.673	1.00 14.53	C
	626	C	GLY A		0.208	25.042	7.678	1.00 18.21	С
ATOM			GLY A		-0.016	25.640	8.743	1.00 16.57	0
ATOM	627	0	TRP A		0.025	25.608	6.485	1.00 18.92	N
ATOM	628	N			-0.456	26.975	6.391	1.00 19.51	С
MOTA	629	CA	TRP A		-0.317	27.500	4.969	1.00 22.20	С
ATOM	630	CB	TRP A		-0.820	28.904	4.822	1.00 26.46	С
MOTA	631	CG	TRP A		-	30.110	5.229	1.00 28.37	С
ATOM	632	CD2			-0.146		4.918	1.00 28.78	С
ATOM	633	CE2			-1.003	31.194		1.00 27.32	C
ATOM	634	CE3			1.096	30.379	5.824	1.00 26.45	č
MOTA	635	CD1			-2.020	29.294	4.299	1.00 20.43	Ŋ
ATOM	636	NE1	TRP A	610	-2.137	30.668	4.354	1.00 29.69	
ATOM	637		TRP A		-0.656	32.526	5.178	1.00 27.49	C
MOTA	638	CZ3		610	1.441	31.706	6.082	1.00 28.88	C
	639	CH2			0.564	32.762	5.758	1.00 28.83	C
ATOM		C	TRP A		-1.905	27.094	6.865	1.00 19.11	С
MOTA	640		TRP A		-2.256	28.052	7.547	1.00 19.32	0
ATOM	641	0			-2.750	26.128	6.524	1.00 18.74	N
ATOM	642	N	ARG A			26.204	6.990	1.00 19.68	С
MOTA	643	CA	ARG A		-4.127	25.075	6.396	1.00 19.92	С
MOTA	644	CB	ARG A		-4.989			1.00 17.15	~ C
MOTA	645	CG	ARG F	A 611	-5.292	25.261	4.901	1.00 14.12	Ċ.
ATOM	646	CD	ARG F	4 611	-6.378	24.315	4.394	1.00 14.12	·· N
ATOM	647	NE	ARG #	4 611	-6.043	22.898	4.533	1.00 17.44	
ATOM	648	CZ	ARG A		-5.271	22.208	3.692	1.00 19.79	C
ATOM	649		ARG A		-4.730	22.786	2.623	1.00 21.94	N
	650	MILIC	ARG A	611	-5.050	20.919	3.911	1.00 20.74	N
ATOM		C	ARG A		-4.151	26.146	8.517	1.00 19.29	С
ATOM	651		ARG A		-4.703	27.034	9.148	1.00 17.58	0
MOTA	652	0	ARG A	1 612	-3.528	25.116	9.092	1.00 20.00	N
MOTA	653	N		A 612		24.920	10.541	1.00 22.03	С
MOTA	654	CA		A 612	-3.476	23.808	10 889	1.00 20.76	С
MOTA	655	CB		A 612	-2.477		10.354	1.00 19.33	Ō
MOTA	656	OG	SER A	A 612	-2.900	22.565	10.334	1.55 -5.55	_

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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	657 C SER A 612 658 O SER A 612 659 N TYR A 613 660 CA TYR A 613 661 CB TYR A 613 662 CG TYR A 613 663 CD1 TYR A 613 664 CE1 TYR A 613 665 CD2 TYR A 613 666 CE2 TYR A 613 667 CZ TYR A 613 667 CZ TYR A 613 668 OH TYR A 613 669 C TYR A 613 670 O TYR A 613 671 N ARG A 614 672 CA ARG A 614 673 CB ARG A 614 674 CG ARG A 614 675 CD ARG A 614 676 NE ARG A 614 677 CZ ARG A 614 678 NH1 ARG A 614 679 NH2 ARG A 614 679 NH2 ARG A 614 680 C ARG A 614 679 NH2 ARG A 615 681 O ARG A 615 682 N GLN A 615 683 CA GLN A 615 684 CB GLN A 615 685 CG GLN A 615 686 CD GLN A 615 687 OE1 GLN A 615 688 NE2 GLN A 615 689 C GLN A 615	-3.096 26.190 11.289 1.00 25.12 -3.745 26.568 12.267 1.00 27.06 -2.034 26.832 10.818 1.00 27.13 -1.527 28.067 11.390 1.00 29.28 -1.527 30.527 12.028 1.00 31.94 0.205 29.867 10.800 1.00 33.61 0.277 30.527 12.028 1.00 33.61 0.761 31.842 12.113 1.00 35.43 0.616 30.555 9.660 1.00 31.78 0.616 30.555 9.731 1.00 33.01 1.172 32.493 10.953 1.00 34.95 1.676 33.772 11.000 1.00 38.65 1.098 31.856 9.731 1.00 33.01 -2.520 29.213 11.235 1.00 31.91 -2.520 29.213 11.235 1.00 33.91 -2.785 29.942 12.185 1.00 33.31 -2.785 29.942 12.185 1.00 33.98 -4.023 30.438 9.781 1.00 36.74 -4.023 30.438 9.781 1.00 36.74 -4.305 30.540 8.279 1.00 39.03 -3.685 31.729 7.576 1.00 43.69 -3.685 31.729 7.576 1.00 43.69 -2.888 33.987 8.060 1.00 52.81 -2.288 34.971 8.673 1.00 56.27 -2.888 33.987 8.060 1.00 52.81 -5.350 30.250 10.519 1.00 37.83 -5.895 31.201 11.075 1.00 38.44 -5.871 29.026 10.518 1.00 37.73 -7.155 27.446 9.071 1.00 39.17 -7.158 27.446 9.071 1.00 37.73 -7.158 27.446 9.071 1.00 37.73 -7.158 27.446 9.071 1.00 37.73 -7.158 27.446 9.071 1.00 37.73 -7.158 27.446 9.071 1.00 37.73 -7.158 27.446 9.071 1.00 37.73 -7.158 27.446 9.071 1.00 37.73 -7.158 27.446 9.071 1.00 37.73 -7.158 27.446 9.071 1.00 37.73 -7.158 27.446 9.071 1.00 37.73 -7.378 29.334 13.358 1.00 37.67 -7.885 27.416 9.071 1.00 37.18 -6.271 27.767 13.197 1.00 37.17 -6.176 27.536 14.639 1.00 37.35 -7.879 29.334 13.358 1.00 37.67 -6.396 26.053 14.928 1.00 37.97 -4.848 27.945 15.258 1.00 36.93 -4.221 28.985 14.718 1.00 37.08 -4.221 28.985 14.718 1.00 37.08 -4.221 28.985 14.718 1.00 37.08 -4.221 28.985 14.718 1.00 37.08 -4.221 28.985 14.718 1.00 37.77 -1.935 28.337 15.451 1.00 36.70 -1.940 30.229 16.540 1.00 36.70 -1.950 28.337 15.451 1.00 36.70 -1.950 28.337 15.451 1.00 36.03 -1.995 27.331 14.577 1.00 37.72 -1.035 26.182 14.640 1.00 36.93	$oldsymbol{0}$
MOTA	702 O SER A 617 703 N ALA A 618 704 CA ALA A 618 705 CB ALA A 618 706 C ALA A 618 707 O ALA A 618 708 N ASN A 619 709 CA ASN A 619 710 CB ASN A 619 711 CG ASN A 619 712 OD1 ASN A 619 713 ND2 ASN A 619 714 C ASN A 619 715 O ASN A 619 716 N LEU A 620 717 CA LEU A 620 718 CB LEU A 620 719 CG LEU A 620 720 CD1 LEU A 620 721 CD2 LEU A 620	-1.140 26.363 14.577 1.00 37.72 -1.953 27.331 14.577 1.00 38.97	C

	702	_	LEU A	620	-4	1.360	22.358	13.286	1.00 3		0	
ATOM	723	N O	LEU A			4.727	20.171	13.644	_	32.72	Ŋ	
ATOM	724 725	CA	LEU A	621		4.391	19.833	12.274		28.31	C	
ATOM	726	CB	LEU A		-3	3.902	18.386	12.164	1.00		C	
ATOM	727	CG	LEU A			2.447	18.262	11.699	1.00	25.72	C	
ATOM	728		LEU A			2.120	16.819	11.334	1.00	23.94	C	
ATOM ATOM	729	CD2	LEU A	621		2.229	19.159	10.507	1.00	25.40	C	
ATOM	730	C	LEU A	621	-5	5.652	20.026	11.447	1.00		C	
ATOM	731	Ö	LEU A		-(6.627	19.296	11.600	1.00		0	
ATOM	732	N	CYS A		-!	5.628	21.019	10.566	1.00		N C	
ATOM	733	CA	CYS A	622	-(6.782	21.314	9.732	1.00		C	
ATOM	734	CB	CYS A	622		7.002	22.829	9.687	1.00		s	
MOTA	735	SG	CYS A	622		6.984	23.647	11.311	1.00		Ċ	
ATOM	736	С	CYS A	622		6.658	20.756	8.309 7.378	1.00		Ö	
ATOM	737	0	CYS A			6.253	21.456	8.137	1.00	24.71	Ŋ	
ATOM	738	N	PHE A			7.008	19.489	6.808	1.00	23.70	C	
ATOM	739	CA	PHE A			6.945	18.878 17.386	6.881	1.00	18.33	С	
ATOM	740	CB	PHE A	623		7.243	16.582	7.526	1.00		C	
MOTA	741	CG	PHE A	623		6.162 4.889	16.531	6.974	1.00		С	
MOTA	742	CD1	PHE A	623		6.427	15.831	8.667	1.00	17.87	С	
MOTA	743	CDZ	PHE A	623		3.899	15.740	7.539	1.00	13.82	С	
ATOM	744		PHE F			5.440	15.037	9.241	1.00	18.17	C	
ATOM	745	CEZ	PHE F	623		4.173	14.990	8.672	1.00	13.35	C	
ATOM	746 747	C	PHE F			7.967	19.537	5.893		23.13	C	
ATOM	748	Ö	PHE A	623		7.664	19.912	4.769	1.00	23.60	0	
ATOM ATOM	749	N	ALA A			9.186	19.669	6.392	1.00	25.10	N C	
ATOM	750	CA	ALA A	4 624	-1	0.265	20.275	5.630	1.00	25.37	C	
MOTA	751	CB	ALA A	A 624		1.019	19.204	4.850	1.00	22.60 26.94	c	
ATOM	752	С	ALA A	A 624		1.189	20.958	6.627	1.00	26.03	ŏ	
ATOM	753	0	ALA A	A 624		1.253	20.553	7.791 6.180	1.00	27.90	N	
MOTA	754	N	PRO A	A 625		1.920	21.997 22.463	4.779	1.00	27.57	С	
ATOM	755	CD	PRO A	A 625		2.009	22.741	7.040		28.39	С	
MOTA	756	CA	PRO A	A 625 A 625		3.661	23.562	6.036	1.00	29.05	С	
ATOM	757	CB CG		A 625		2.664	23.822	4.925	1.00	26.57	C	
ATOM	758 759	C	DDO 2	A 625		3.724	21.826	7.900	1.00	29.86	c	
MOTA MOTA	760	ŏ		A 625		4.072	22.163	9.036	1.00	30.15	0	
ATOM	761	Ŋ	ASP	A 626	-1	4.059	20.658	7.363	1.00	30.80	И С	
ATOM	762	ÇA	ASP A	A 626		4.906	19.704	8.079	1.00	31.85 32.39	c	
ATOM	763	CB	ASP 2	A 626		16.034	19.232	7.160 5.938	1.00	34.23	Č	
ATOM	764	CG	ASP A	A 626		15.519	18.523	5.402	1.00	35.11	ŏ	
MOTA	765	ODJ	L ASP	A 626		14.481	18.968 17.529		1.00	36.31	0	
MOTA	766		ASP			L6.147 L4.160	18.491	8.637	1.00	31.65	С	
ATOM	767	C		A 626		L4.784	17.490	8.998		31.79	0	
ATOM	768	0	ASP .	A 626 A 627		12.835	18.577	8.705	1.00	30.72	N	
MOTA	769	N CA	LEU .	A 627		12.023	17.485	9.231	1.00	30.39	C	
ATOM ATOM	770 771	CB	T.E.II	A 627		11.627	16.518		1.00	31.94	C	
ATOM	772	·CG	LEU	A 627		10.730	15.346	8.526	1.00	32.23	C	
ATOM	773		l LEU	A 627		11.443			1.00	32.57	C	
MOTA	774	CD	2 LEU	A 627		10.367			1.00	33.61 30.91	c	
ATOM	775	С	LEU	A 627		10.776		9.904		31.58	ő	
ATOM	776	0		A 627		-9.731				30.42	Ŋ	
MOTA	777	N		A 628	-:	10.915	18.315			29.12	Ĉ	
ATOM	778	CA		A 628		-9.861				29.30	C≀-	
MOTA	779	, CB	ILE	A. 628	-	10.332 -9.256				28.96	С	
ATOM	780	CG	2 ILE	A 628		-9.236 10.691	21.165		1.00	29.83	С	
MOTA	781	CG	1 ILE	A 620		11.173			1.00	29.22	С	
MOTA	782		1 ILE	A 628		-9.500			1.00	28.55	С	
MOTA	783	C	TDE	A 628		10.372		13.793	1.00	26.89	0	
MOTA	784	O N	A 1.E	A 629		-8.206		13.332	1.00	28.07	N	
ATOM ATOM	785 786			A 629		-7.738	16.735			28.14	C	
ATOM	787			A 629		-6.417	16.059			23.41	C	
ATOM	788		2 ILE			-6.097	14.872	14.800	T.00	20.89	C	

MOTA	789 CG1 ILE A 629	-6.542 15.586 12.438 1.00 21.39 -7.626 14.556 12.187 1.00 14.88	CCC
ATOM	790 CD1 ILE A 629	-7.532 17.417 15.690 1.00 31.04 -7.532 17.417 15.690 1.00 31.04	С 0
MOTA	791 C ILE A 629 792 O ILE A 629	-6.438 17.877 16.011 1.00 35 43	N
MOTA		-8.601 17.484 16.473 1.00 40.50	C
ATOM	793 N ASN A 630 794 CA ASN A 630	-8.546 10.094 10.038 06	С
ATOM	795 CB ASN A 630	-9.959 18.250 18.260 1.00 38.08	C
ATOM ATOM	796 CG ASN A 630	17 639 1.00 40.80	O N
ATOM	797 OD1 ASN A 630	10 300 15 976 18.881 1.00 35.09	C
MOTA	798 ND2 ASN A 630 799 C ASN A 630	-7 751 17.207 18.750 1.00 43.32 -2 751 17.207 18.750 1.00 43.32	Ö
MOTA	707 7 630	-7.347 16.096 18.395 1.00 47 18	N
MOTA	800 O ASN A 630 801 N GLU A 631	-/.548 17.700 20 988 1.00 51.44	С
MOTA MOTA	802 CA GLU A 631	-6.793 10.990 22 266 1.00 54.29	C
MOTA	803 CB GLU A 631	6 226 19.263 22.058 1.00 59.06	C C
ATOM	804 CG GLU A 631	7 322 20.281 22.336 1.00 61.38	Ö
MOTA	805 CD GLU A 631 806 OE1 GLU A 631	-8.355 20.250 21.624 1.00 d1.72	ŏ
MOTA	7 (21	-7.149 21.105 23.267 1.00 52.40	С
MOTA	808 C GLU A 631	-7.3/2 15.022 21.351 1.00 53.22	0
MOTA MOTA	809 O GLU A 631	-6.630 14.723 22.195 1.00 53.21	N
ATOM	810 N GLN A 632	0.310 14.171 21.529 1.00 53.88	C C
ATOM	811 CA GLN A 632	-10.754 14.378 21.999 1.00 55.39	Ç
MOTA	812 CB GLN A 632 813 CG GLN A 632	-11.801 14.240 20.899 1.00 37.32	č
MOTA	813 CG GLN A 632 814 CD GLN A 632	-13.221 14.300 22.380 1.00 60.31	0
ATOM ATOM	815 OE1 GLN A 632	-13.605 15.603 20 796 1.00 60.27	N
ATOM	816 NE2 GLN A 632	201 20 354 1.00 53.11	C O
ATOM	817 C GLN A 632	-9.185 11.988 20.535 1.00 53.50	N
MOTA	818 O GLN A 632 819 N ARG A 633	-9.444 13.741 19.150 1.00 51.00	Ċ
ATOM	- 2DG 2 C33	-9.464 12.917 17.954 1.00 30.12	С
ATOM	921 CB ARG A 633	-10.052 13.700 15 722 1.00 47.25	C
MOTA MOTA	922 CG ARG A 633	-10.689 12.620 14 376 1.00 45.91	C
ATOM	823 CD ARG A 633	11 347 14.805 14.379 1.00 42.55	N C
ATOM	824 NE ARG A 633 825 CZ ARG A 633	-12.635 14.979 14.094 1.00 39.20	Ŋ
ATOM	220 7 633	-13.400 13.947 13.785 1.00 38.89	N
MOTA	827 NH2 ARG A 633	-13.151 10.157 17 619 1.00 49.42	C
MOTA MOTA	928 C ARG A 633	-8.048 12.473 16.864 1.00 48.98	O N
MOTA	829 O ARG A 633	7 063 13 160 18 188 1.00 48 32	C
MOTA	830 N MET A 634 831 CA MET A 634	-5.678 12.816 17.935 1.00 48.72	Č
ATOM	- read 2 631	-4.802 14.064 17.966 1.00 49.15	С
MOTA	933 CG MET A 634	-3.509 15.072 17.083 1.00 51.35	S
MOTA MOTA	934 SD MET A 634	2.366 15.372 15.727 1.00 51.40	C
MOTA	835 CE MET A 634	-5 174 11.799 18.949 1.00 49.43	C
MOTA	836 C MET A 634 837 O MET A 634	-3.972 11.534 19.045 1.00 49.13	N
MOTA	939 N THR A 635	-6.109 11.240 19.712 1.00 48.31	С
ATOM	939 CA THR A 635	-5.789 10.223 21 989 1.00 49.06	C
ATOM ATOM	940 CB THR A 635	7 985 9.966 21.736 1.00 49.20	0
MOTA	841 OG1 THR A 635	6 634 11.823 22.436 1.00 48.63	C
ATOM	842 CG2 THR A 635 843 C THR A 635	-6.107 8.879 20.079 1.00 48.80	o
MOTA	mm 7 635	-5.814 7.836 20.656 1.00 47.32	N
ATOM	945 N 'LEU A 636	-6.722 70.317 18 161 1.00 44.54	Ç
ATOM ATOM	846 CA LEU A 636	-7.061 7.703 16 920 1.00 45.26	C
ATOM ATOM	047 CB LEU A 636	0.396 8.298 17.073 1.00 46.68	C
ATOM	848 CG LEU A 636	-9.640 9.415 18.072 1.00 48.83	
ATOM	849 CD1 LEU A 636	-9.972 8.670 15.715 1.00 47.31	Č
ATOM	· aca a trii A 636	-5.774 7.008 17.723 1.00 41.79	C
ATOM	052 O LEU A 636	-4./32 7.034 17 600 1.00 42.87	N
ATOM ATOM	953 N PRO A 637	-5.812 5.073 17 001 1 00 42.81	C
MOTA	2 OF A 637	-6.970 4.805 17.881 1.00 12.00	
ATOR			

							17 100	1.00 42.64	С
ATOM	855	CA	PRO A	637	-4.655	4.873	17.188		
		CB	PRO A		-5.264	3.495	16.949	1.00 42.55	С
ATOM	856				-6.325	3.436	18.000	1.00 42.89	С
MOTA	857	CG	PRO A					1.00 42.03	Č
ATOM	858	С	PRO A	637	-3.943	5.404	15.948		
		-	PRO A		-4.545	5.526	14.875	1.00 41.50	0
ATOM	859	0				5.713	16.121	1.00 41.66	N
ATOM	860	N	ASP A		-2.659				Ĉ
ATOM	861	CA	ASP A	638	-1.787	6.212	15.061	1.00 41.69	
					-1.949	5.369	13.794	1.00 44.86	С
MOTA	862	CB	ASP A					1.00 47.64	С
ATOM	863	CG	ASP A	. 638	-1.250	4.025	13.897		
	864	OD1	ASP A	638	-0.016	4.013	14.126	1.00 49.89	0
ATOM					-1.932	2.985	13.748	1.00 47.98	0
ATOM	865	ODZ	ASP A					1.00 40.66	С
ATOM	866	С	ASP A	638	-1.947	7.679	14.707		
	867	Ō	ASP A		-1.089	8.247	14.025	1.00 41.62	0
ATOM					-3.032	8.297	15.163	1.00 37.51	N
ATOM	868	N	MET A					1.00 35.41	С
ATOM	869	CA	MET A	639	-3.250	9.699	14.860		
	870	CB	MET A	639	-4.546	10.196	15.495	1.00 35.58	С
MOTA					-5.760	10.003	14.605	1.00 37.29	С
MOTA	871	CG	MET A					1.00 37.08	S
MOTA	872	SD	MET A	639	-5.504	10.544	12.886		
ATOM	873	CE	MET A	639	-5.554	8.978	12.096	1.00 37.85	C
			MET A		-2.087	10.580	15.292	1.00 33.96	С
ATOM	874	С				11.346	14.488	1.00 34.72	0
ATOM	875	0	MET A	639	-1.552				N
ATOM	876	N	TYR A	640	-1.681	10.465	16.550	1.00 31.47	
			TYR A		-0.580	11.276	17.052	1.00 29.77	С
ATOM	877	CA				11.022	18.551	1.00 27.01	С
ATOM	878	CB	TYR A	640	-0.353				Ċ
ATOM	879	CG	TYR A	640	0.952	11.622	19.059	1.00 25.22	
					1.006	12.929	19.558	1.00 23.71	C
ATOM	880	CD1				13.499	19.967	1.00 22.51	С
ATOM	881	CE1	TYR A	640	2.224				Č
ATOM	882	CD2	TYR A	640	2.149	10.904	18.982	1.00 23.26	
		CE2	TYR A		3.372	11.473	19.383	1.00 21.37	С
ATOM	883				3.399	12.767	19.875	1.00 21.41	С
ATOM	884	CZ	TYR A					1.00 22.84	0
ATOM	885	OH	TYR A	640	4.597	13.328	20.283		
	886	С	TYR A	_	0.745	11.057	16.325	1.00 28.18	С
ATOM					1.426	12.010	15.953	1.00 26.85	0
ATOM	887	0	TYR A					1.00 28.71	N
ATOM	888	N	ASP A	641	1.117	9.797	16.151		
ATOM	889	CA	ASP A	641	2.380	9.453	15.517	1.00 28.19	С
			ASP A		2.471	7.947	15.339	1.00 28.67	С
ATOM	890	CB					14.820	1.00 29.28	C
ATOM	891	CG	ASP F		3.813	7.512			ŏ
ATOM	892	001	ASP F	641	3.844	6.692	13.878	1.00 32.46	
			ASP F		4.838	7.985	15.353	1.00 30.37	0
ATOM	893		ASE F	7 047	2.625	10.126	14.175	1.00 29.44	С
MOTA	894	С	ASP F	1 64 L				1.00 30.37	Ō
ATOM	895	0	ASP F	641	3.686	10.707	13.951		
	896	N	GLN A	642	1.655	10.043	13.273	1.00 29.03	N
ATOM					1.839	10.657	11.970	1.00 29.83	С
MOTA	897	CA	GLN F				10.892	1.00 29.78	С
ATOM	898	CB	GLN F	4 642	1.042	9.900	-		
ATOM	899	CG	GLN F	642	-0.397	9.609	11.246	1.00 32.54	C
			GLN F		-1.008	8.512	10.383	1.00 31.80	С
ATOM	900	CD			2.140		10.601	1.00 32.82	0
MOTA	901	OEI	GLN F	1 642	-2.149	8.103		1.00 32.02	
ATOM	902	NE2	GLN A	4 642	-0.255	8.035	9.401	1.00 29.50	N
	903	C	GLN A	642	1.495	12.135	11.958	1.00 29.04	С
ATOM					2.102	12.903	11.202	1.00 28.81	0
ATOM	904	0	GLN A						N
ATOM	905	N	CYS F	4 643	0.551	12.536	12.809	1.00 26.79	
	906	CA	CYS F		0.143	13.934	12.882	1.00 25.81	С
ATOM			CIO I		-1.111	14.087	13.742	1.00 26.43	С
MOTA	907	CB	CYS F	1 643				1.00 28.94	S
MOTA	908	SG	CYS F	4 643	-2.642	13.720	12.873		
	909	c ·			1.203	14.890	13.404	1.00 25.12	С
ATOM					1.236	16.046	12.996	1.00 27.03	0
MOTA	910	0	CYS A					1.00 23.52	N
MOTA	911	N	LYS A	4 644	2.059	14.422	14.304		
ATOM	912	CA	LYS A	4 644	3.100	15.274	14.886	1.00 24.89	С
			LYS A	644	3.893	14.502	15.959	1.00 25.80	С
ATOM	913	CB						1.00 24.01	С
ATOM	914	CG	LYS A		4.718	13.327	15.415		č
ATOM	915	CD	LYS A	A 644	5.496	12.621	16.497	1.00 20.96	C
			LYS A		6.247	11.448	15.906	1.00 23.30	С
ATOM	916	CE					16.919	1.00 21.99	N
MOTA	917	NZ	LYS A		7.056	10.715			
ATOM	918	С	LYS A	A 644	4.070	15.820	13.845	1.00 24.66	C
			LYS A		4.763	16.808	14.092	1.00 24.41	0
MOTA	919	0	DIO 2	7 646			12.690	1.00 25.17	N
MOTA	920	N	HIS A	4 645	4.124	15.160	12.000		

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ATOM 970 O SER A 650 ATOM 971 N SER A 651 ATOM 972 CA SER A 651 ATOM 973 CB SER A 651 ATOM 974 OG SER A 651 ATOM 975 C SER A 651 ATOM 976 O SER A 651 ATOM 977 N GLU A 652 ATOM 977 ROBER A 652 ATOM 978 CA GLU A 652 ATOM 979 CB GLU A 652 ATOM 979 CB GLU A 652 ATOM 980 CG GLU A 652 ATOM 981 CD GLU A 652 ATOM 983 OE2 GLU A 652 ATOM 984 C GLU A 652 ATOM 984 C GLU A 652 ATOM 985 O GLU A 652 ATOM 985 O GLU A 652 ATOM 986 C GLU A 652 ATOM 987 O GLU A 652 ATOM 988 O G GLU A 652 ATOM 988 O CG GLU A 652 ATOM 988 O CG GLU A 652 ATOM 980 O CA A 650 ATOM 980 O CG GLU A 652 ATOM 980 O CG GL		969 C SER A 650	2.322 23.240 12.326 1.00 27.60	
ATOM 971 N SER A 651 4.280 25.162 14.233 1.00 24.96 C ATOM 973 CB SER A 651 5.076 24.550 16.425 1.00 29.08 O ATOM 975 C SER A 651 5.378 26.145 13.803 1.00 24.90 C ATOM 976 O SER A 651 5.460 27.260 14.328 1.00 22.26 O ATOM 977 N GLU A 652 6.219 25.726 12.853 1.00 24.07 N ATOM 978 CA GLU A 652 7.299 26.571 12.349 1.00 22.81 C ATOM 979 CB GLU A 652 8.204 25.776 11.418 1.00 23.24 C ATOM 980 CG GLU A 652 9.198 24.881 12.138 1.00 27.50 C ATOM 981 CD GLU A 652 9.634 25.905 14.251 1.00 26.18 O ATOM 983 OE2 GLU A 652 9.634 25.905 14.251 1.00 26.18 O ATOM 983 OE2 GLU A 652 11.180 26.054 12.686 1.00 28.48 O ATOM 984 C GLU A 652 7.316 28.902 11.775 1.00 24.25 O ATOM 985 O GLU A 652 7.316 28.902 11.7		970 O SER A 650	2.744 20.100 13.084 1.00 25.89	
ATOM 972 CA SER A 651 4.864 24.067 15.123 1.00 25.41 C ATOM 974 OG SER A 651 5.076 24.550 16.425 1.00 29.08 O ATOM 975 C SER A 651 5.378 26.145 13.803 1.00 24.90 C ATOM 976 O SER A 651 5.460 27.260 14.328 1.00 22.26 O ATOM 977 N GLU A 652 6.219 25.726 12.853 1.00 24.07 N ATOM 978 CA GLU A 652 7.299 26.571 12.349 1.00 22.81 C ATOM 979 CB GLU A 652 8.204 25.776 11.418 1.00 23.24 C ATOM 980 CG GLU A 652 9.198 24.881 12.138 1.00 27.50 C ATOM 981 CD GLU A 652 9.198 24.881 12.138 1.00 27.50 C ATOM 983 OE2 GLU A 652 9.634 25.905 14.251 1.00 26.18 O ATOM 983 OE2 GLU A 652 11.180 26.054 12.686 1.00 28.48 O ATOM 984 C GLU A 652 7.316 28.902 11.775 1.00 24.25 O ATOM 985 O GLU A 652 7.316 28.902 11.		971 N SER A 651	3.045 24.362 14.233 1.00 24.96	
ATOM 974 OG SER A 651 5.076 24.550 16.425 1.00 29.08 OC ATOM 975 C SER A 651 5.460 27.260 14.328 1.00 22.26 ATOM 976 O SER A 651 5.460 27.260 14.328 1.00 24.07 N ATOM 977 N GLU A 652 6.219 25.726 12.853 1.00 24.07 N ATOM 978 CA GLU A 652 7.299 26.571 12.349 1.00 22.81 C ATOM 979 CB GLU A 652 8.204 25.776 11.418 1.00 23.24 C ATOM 980 CG GLU A 652 9.198 24.881 12.138 1.00 25.38 C ATOM 981 CD GLU A 652 9.198 24.881 12.138 1.00 27.50 C ATOM 981 CD GLU A 652 9.634 25.905 14.251 1.00 26.18 O 9.634 25.905 14.251 1.00 26.18 O 9.634 25.905 14.251 1.00 24.78 C ATOM 983 OE2 GLU A 652 11.180 26.054 12.686 1.00 28.48 O ATOM 984 C GLU A 652 6.770 27.806 11.625 1.00 24.78 C ATOM 985 O GLU A 652 7.316 28.902 11.775 1.00 24.25 O ATOM 985 O GLU A 652 7.316 28.902 11.775 1.00 24.25 O ATOM 985 O GLU A 652 7.316 28.902 11.775 1.00 24.25 O ATOM 985 O GLU A 652 7.316 28.902 11.775 1.00 24.25 O ATOM 985 O GLU A 652 7.316 28.902 11.775 1.00 24.91 N		7 CE1	4 864 24.067 15.123 1.00 25.41	
ATOM 975 C SER A 651 5.378 26.145 13.803 1.00 24.95 O ATOM 976 O SER A 651 5.460 27.260 14.328 1.00 22.26 O ATOM 977 N GLU A 652 7.299 26.571 12.349 1.00 22.81 C ATOM 979 CB GLU A 652 8.204 25.776 11.418 1.00 23.24 C ATOM 980 CG GLU A 652 9.198 24.881 12.138 1.00 25.38 C ATOM 981 CD GLU A 652 9.198 24.881 12.138 1.00 27.50 C ATOM 981 CD GLU A 652 9.634 25.905 14.251 1.00 26.18 O ATOM 983 OE2 GLU A 652 9.634 25.905 14.251 1.00 26.18 O ATOM 983 OE2 GLU A 652 11.180 26.054 12.686 1.00 28.48 O ATOM 984 C GLU A 652 6.7316 28.902 11.775 1.00 24.25 O ATOM 985 O GLU A 652 7.316 28.902 11.775 1.00 24.25 O ATOM 985 O GLU A 652 7.316 28.902 11.775 1.00 24.25 O ATOM 985 O GLU A 652 7.316 28.902 11.775 1.00 24.91 N	MOTA	- amp x 651	5 076 24 550 16.425 1.00 29.00	
ATOM 976 O SER A 651 5.460 27.260 14.328 1.00 22.20 N ATOM 976 N GLU A 652 6.219 25.726 12.853 1.00 24.07 N GLU A 652 7.299 26.571 12.349 1.00 22.81 C ATOM 979 CB GLU A 652 8.204 25.776 11.418 1.00 23.24 C ATOM 980 CG GLU A 652 9.198 24.881 12.138 1.00 25.38 C ATOM 981 CD GLU A 652 9.198 24.881 12.138 1.00 27.50 C ATOM 982 OE1 GLU A 652 9.634 25.905 14.251 1.00 26.18 O ATOM 983 OE2 GLU A 652 9.634 25.905 14.251 1.00 26.18 O ATOM 983 OE2 GLU A 652 11.180 26.054 12.686 1.00 28.48 O ATOM 984 C GLU A 652 6.770 27.806 11.625 1.00 24.78 C ATOM 985 O GLU A 652 7.316 28.902 11.775 1.00 24.25 O ATOM 985 O GLU A 652 7.316 28.902 11.775 1.00 24.25 O ATOM 985 O GLU A 652 7.316 28.902 11.775 1.00 24.25 O ATOM 985 O GLU A 652 7.316 28.902 11.775 1.00 24.25 O ATOM 985 O GLU A 652 7.316 28.902 11.775 1.00 24.91 N		R CE1	5 378 26.145 13.803 1.00 24.30	
ATOM 977 N GLU A 652		7 CE1	5.460 27.260 14.328 1.00 22.26	
ATOM 978 CA GLU A 652 7.299 26.571 12.349 1.00 22.01 C ATOM 979 CB GLU A 652 8.204 25.776 11.418 1.00 23.24 C ATOM 980 CG GLU A 652 9.198 24.881 12.138 1.00 25.38 C ATOM 981 CD GLU A 652 10.067 25.661 13.098 1.00 27.50 C ATOM 982 OE1 GLU A 652 9.634 25.905 14.251 1.00 26.18 O ATOM 983 OE2 GLU A 652 11.180 26.054 12.686 1.00 28.48 O ATOM 984 C GLU A 652 11.180 26.054 12.686 1.00 24.78 C ATOM 985 O GLU A 652 7.316 28.902 11.775 1.00 24.25 O ATOM 985 O GLU A 652 7.316 28.902 11.775 1.00 24.25 O ATOM 985 O GLU A 652 7.316 28.902 11.775 1.00 24.25 O ATOM 985 O GLU A 652 7.316 28.902 11.775 1.00 24.25 O ATOM 985 O GLU A 652 7.316 28.902 11.775 1.00 24.91 N			6.219 25.726 12.853 1.00 24.07	
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ATOM 980 CG GLU A 652 9.198 24.881 12.130 1.00 27.50 C ATOM 981 CD GLU A 652 9.634 25.905 14.251 1.00 26.18 O ATOM 983 OE2 GLU A 652 11.180 26.054 12.686 1.00 28.48 O ATOM 984 C GLU A 652 6.770 27.806 11.625 1.00 24.78 ATOM 985 O GLU A 652 7.316 28.902 11.775 1.00 24.25 O ATOM 985 O GLU A 653 5.714 27.632 10.835 1.00 24.91 N		979 CB GLU A 652	8.204 23.775 10.130 1.00 25 38	С
ATOM 981 CD GLU A 652 10.007 25.905 14.251 1.00 26.18 O ATOM 982 OE1 GLU A 652 9.634 25.905 14.251 1.00 28.48 O ATOM 983 OE2 GLU A 652 11.180 26.054 12.686 1.00 28.48 O ATOM 984 C GLU A 652 6.770 27.806 11.625 1.00 24.78 C ATOM 985 O GLU A 652 7.316 28.902 11.775 1.00 24.25 O ATOM 985 O GLU A 652 7.316 28.902 11.775 1.00 24.25 O		980 CG GLU A 652	9.198 24.661 13.098 1.00 27.50	
ATOM 982 OE1 GLU A 652 9.634 12.686 1.00 28.48 O ATOM 983 OE2 GLU A 652 11.180 26.054 12.686 1.00 24.78 C ATOM 984 C GLU A 652 6.70 27.806 11.625 1.00 24.78 C ATOM 985 O GLU A 652 7.316 28.902 11.775 1.00 24.25 O ATOM 985 O GLU A 653 5.714 27.632 10.835 1.00 24.91 N		981 CD GLU A 652	25.005 14.251 1.00 26.18	
ATOM 983 OE2 GLU A 652 11.180 27.806 11.625 1.00 24.78 C ATOM 984 C GLU A 652 7.316 28.902 11.775 1.00 24.25 OATOM 985 O GLU A 652 7.316 28.902 11.775 1.00 24.25 N		982 OE1 GLU A 652	11 100 26 054 12 686 1.00 28.48	
ATOM 984 C GLU A 652 7.316 28.902 11.775 1.00 24.25 0.7316 28.0000 11.7000 11.7000 11.7000 11.7000 11.7000 11.7000 11.7000 11.7000 11.7000 11.7000 11.7000 11.7000 11.7000 11.7000 11.7000 11.7000 11.7000 11.7000 11.7000 11.		~~ ** ** CEO	6 770 27.806 11.625 1.00 24.78	
ATOM 985 O GLU A 652 7.514 27.632 10.835 1.00 24.91 N		m+17 7 CEO	7.316 28.902 11.775 1.00 24.25	
ATOM 986 M HES see			10 025 1 10 24 91	14
	MOTA	200 N 110 11 223		

ATOM	987	CA	LEU A	653	5.111	28.752	10.122	1.00 26.26	C
ATOM	988	СВ	LEU A		3.923	28.278	9.277	1.00 26.67	C
MOTA	989	CG	LEU A		4.109	27.866	7.810 7.647	1.00 26.12 1.00 27.97	c
MOTA	990		LEU A		5.290	26.945	7.330	1.00 25.50	Ċ
MOTA	991		LEU A		2.840	27.176 29.764	11.157	1.00 27.54	č
MOTA	992	C	LEU A		4.629 4.724	30.972	10.946	1.00 29.31	0
MOTA	993	0	LEU A		4.116	29.250	12.274	1.00 27.97	N
ATOM	994	N CA	HIS A		3.612	30.065	13.381	1.00 28.01	С
ATOM ATOM	995 996	CB	HIS A		2.914	29.171	14.412	1.00 28.47	С
ATOM	997	CG	HIS A		2.419	29.912	15.611	1.00 29.23	C
ATOM	998		HIS A		2.849	29.919	16.894	1.00 31.02	C
ATOM	999		HIS A		1.375	30.811	15.553	1.00 31.41	N
MOTA	1000	CE1	HIS A	654	1.184	31.341	16.748	1.00 31.38	C N
ATOM	1001	NE2	HIS A		2.066	30.816	17.580	1.00 31.53 1.00 28.29	C
MOTA	1002	С	HIS A		4.741	30.821	14.079 14.349	1.00 26.23	ő
MOTA	1003	0	HIS A		4.639	32.016 30.089	14.389	1.00 29.23	Ŋ
ATOM	1004	N	ARG A		5.805 6.973	30.636	15.056	1.00 30.11	C
ATOM	1005	CA	ARG A		7.976	29.506	15.331	1.00 29.80	· C
ATOM	1006 1007	CB CG	ARG A		9.261	29.948	16.015	1.00 30.65	С
ATOM ATOM	1007	CD	ARG A		10.210	28.784	16.209	1.00 32.47	С
ATOM	1009	NE	ARG A		10.829	28.332	14.963	1.00 35.16	N
ATOM	1010	CZ	ARG A		11.812	28.976	14.334	1.00 36.76	C
MOTA	1011	NH1	ARG A		12.291	30.112	14.829	1.00 37.45	N N
MOTA	1012	NH2	ARG A		12.337	28.472	13.222	1.00 35.49 1.00 31.54	C
MOTA	1013	С	ARG A		7.612	31.717	14.180 14.622	1.00 31.54 1.00 33.82	Ö
MOTA	1014	0	ARG A		7.825	32.847 31.356	12.937	1.00 32.33	N
ATOM	1015	N	LEU A		7.912 8.522	32.263	11.970	1.00 31.24	С
MOTA	1016	CA CB	LEU A		9.011	31.457	10.755	1.00 29.19	С
ATOM	1017 1018	CG	LEU A		10.502	31.120	10.568	1.00 27.84	С
ATOM ATOM	1019	CD1			11.277	31.188	11.878	1.00 26.94	C
ATOM	1020		LEU A		10.604	29.741	9.935	1.00 24.56	C
ATOM	1021	C	LEU A	656	7.544	33.357	11.521	1.00 31.13	C 0
ATOM	1022	0	LEU A		7.942	34.318	10.870	1.00 30.73 1.00 31.70	N
MOTA	1023	N	GLN A		6.269	33.210	11.869 11.491	1.00 31.70	C
ATOM	1024	CA	GLN A		5.266 5.488	34.201 35.491	12.281	1.00 34.91	Č
ATOM	1025	CB	GLN A		4.979	35.436	13.708	1.00 35.94	С
ATOM	1026 1027	CG CD	GLN A		3.462	35.525	13.776	1.00 37.86	С
ATOM ATOM	1027	OE1			2.872	36.540	13.388	1.00 40.15	0
ATOM	1029	NE2			2.821	34.464	14.264	1.00 36.73	N
ATOM	1030	С	GLN A		5.331	34.498	10.000	1.00 33.66	C 0
ATOM	1031	0	GLN A		5.362	35.656	9.584	1.00 35.07 1.00 33.40	N
ATOM	1032	N	VAL A		5.345	33.441	9.198 7.751	1.00 33.40	C
MOTA	1033	CA	VAL A		5.425	33.579 32.178	7.096	1.00 30.76	Č
MOTA	1034	CB	VAL A		5.575 5.582	32.290	5.580	1.00 30.06	С
MOTA	1035		VAL A		6.858	31.517	7.585	1.00 28.18	С
MOTA	1036 1037	CGZ	VAL A		4.205	34.312	7.179	1.00 32.39	С
MOTA MOTA	1037	Ö	VAL A		3.063	34.044	7.569	1.00 33.62	0
ATOM	1039	Ň	SER F		4.454	35.250	6.268	1.00 30.95	N
MOTA	1040	CA	SER F		3.380	36.008	5.638	1.00 29.99	C
ATOM	1041	CB	SER A		3.882	37.373	5.160	1.00 29.29	C 0
ATOM	1042	OG	SER A		4.689	37.247	3.996	1.00 28.31 1.00 31.17	c
MOTA	1043	C	SER A		2.829	35.241	4.436 3.882	1.00 31.17	Ö
ATOM	1044	0	SER A		3.484 1.627	34.356 35.601	4.018	1.00 30.55	N
ATOM	1045	N	TYR A		1.013	34.940	2.893	1.00 30.07	С
ATOM	1046	CA CB	TYR A		-0.351	35.568	2.606	1.00 29.55	С
MOTA	1047 1048	CB	TYR A		-1.182	34.749	1.655	1.00 30.20	С
ATOM ATOM	1048	CD1			-1.374	33.383	1.869	1.00 28.71	C
ATOM	1050	CE1			-2.135	32.620	0.993	1.00 30.32	C
ATOM	1051	CD2	TYR A	A 660	-1.778	35.335	0.538	1.00 31.60	C
ATOM	1052		TYR A		-2.545	34.580	-0.345	1.00 32.04	C

			660		-2.718	33.224	-0.112	1.00 31.02	С
MOTA	1053	CZ	TYR A 660		-3.477	32.476	-0.987	1.00 32.79	0
MOTA	1054	OH	TYR A 660		1.910	34.997	1.658	1.00 30.23	C
MOTA	1055	C	TYR A 660 TYR A 660		2.044	34.003	0.951	1.00 32.23	0
MOTA	1056	0	GLU A 661		2.528	36.149	1.399	1.00 30.64	N
MOTA	1057	N	GLU A 661		3.417	36.298	0.243	1.00 30.01	C
MOTA	1058	CA	GLU A 661		3.843	37.762	0.076	1.00 33.12	C
ATOM	1059	CB	GLU A 661		3.002	38.513	-0.951	1.00 38.91	C
ATOM	1060	CG	GLU A 661		3.534	39.908	-1.271	1.00 42.25	C
ATOM	1061	CD	GLU A 661		4.750	40.054	-1.560	1.00 44.50	0
MOTA	1062	OE1			2.725	40.860	-1.246	1.00 43.08	0
MOTA	1063		GLU A 661		4.653	35.397	0.335	1.00 27.83	C
MOTA	1064	C	GLU A 661		4.995	34.706	-0.625	1.00 26.41	0
ATOM	1065	0	GLU A 661 GLU A 662		5.327	35.406	1.483	1.00 26.22	N
ATOM	1066	N	GLU A 662		6.495	34.548	1.666	1.00 26.21	C
MOTA	1067	CA	GLU A 662		7.054	34.685	3.087	1.00 27.13	C
MOTA	1068	CB	GLU A 662		7.505	36.093	3.457	1.00 28.24	C
MOTA	1069	CG	GLU A 662		7.866	36.230	4.929	1.00 27.93	C
ATOM	1070	CD	GLU A 662		7.131	35.688	5.783	1.00 27.43	0
ATOM	1071	OE2			8.877	36.893	5.234	1.00 28.04	0
MOTA	1072	C	GLU A 662		6.052	33.102	1.443	1.00 25.09	C
ATOM	1073		GLU A 662		6.745	32.321	0.795	1.00 24.70	0
ATOM	1074	0	TYR A 663		4.879	32.772	1.985	1.00 23.13	Ŋ
MOTA	1075	N CA	TYR A 663		4.289	31.442	1.889	1.00 20.90	C
ATOM	1076 1077	CB	TYR A 663		2.921	31.435	2.559	1.00 21.82	C C
MOTA		CG	TYR A 663		2.073	30.239	2.200	1.00 23.06	C
ATOM	1078 1079	CD1			2.383	28.967	2.681	1.00 22.74	C
ATOM	1079	CE1			1.597	27.860	2.345	1.00 24.36	C
MOTA	1081	CD2			0.957	30.380	1.370	1.00 22.89	c
MOTA	1081	CE2			0.169	29.287	1.025	1.00 23.08	c
ATOM	1083	CZ	TYR A 663		0.491	28.031	1.515	1.00 25.25	o
MOTA	1084	OH	TYR A 663		-0.304	26.956	1.175	1.00 27.42	Č
ATOM ATOM	1085	C	TYR A 663		4.137	30.980	0.455	1.00 21.27	Õ
MOTA	1086	õ	TYR A 663		4.588	29.893	0.081	1.00 21.88	N
ATOM	1087	N	LEU A 664		3.471	31.808	-0.339	1.00 20.62 1.00 19.11	Ĉ
ATOM	1088	CA	LEU A 664		3.241	31.517	-1.739	1.00 19.11	Č
ATOM	1089	CB	LEU A 664		2.554	32.716	-2.396	1.00 19.47	Č
ATOM	1090	CG	LEU A 664		1.155	33.007	-1.857 -2.516	1.00 20.06	Ċ
ATOM	1091	CD1	LEU A 664		0.595	34.269	-2.310	1.00 19.53	Ċ
ATOM	1092	CD2	LEU A 664		0.255	31.797	-2.121	1.00 19.15	С
MOTA	1093	С	LEU A 66		4.552	31.205 30.242	-3.237	1.00 17.94	0
ATOM	1094	0	LEU A 66		4.636		-2.196	1.00 18.90	N
ATOM	1095	N	CYS A 66		5.567	32.025 31.858	-2.817	1.00 20.45	С
ATOM	1096	CA	CYS A 66		6.882	33.086		1.00 20.26	С
MOTA	1097	CB	CYS A 66		7.771	34.628	-3.251	1.00 23.67	S
MOTA	1098	SG	CYS A 66		7.156 7.580	30.615	-2.296	1.00 18.73	С
MOTA	1099	С	CYS A 66	-	8.315	29.964	-3.033	1.00 20.72	0
MOTA	1100	0	CYS A 66	-	7.353	30.292		1.00 17.68	N
MOTA	1101	N	MET A 66		7.974	29.122		1.00 18.39	С
MOTA	1102	CA	MET A 66		7.800			1.00 17.75	C
MOTA	1103		MET A 66		8.714		_	1.00 17.57	С
MOTA	1104	CG	MET A 66		8.402			1.00 20.65	S
MOTA	1105		MET A 66		9.480			1.00 16.96	C
MOTA	1106		MET A 66		7.370			1.00 20.00	C
MOTA	1107		MET A 66		8.081			1.00 20.98	0
MOTA	1108		MET A 66		6.055			1.:00 19.75	N
ATOM	.1109		LYS, A 66		5,414			1.00 20.53	C
ATOM	1110				3.893			1.00 20.31	C
ATOM	1111				3.169			1.00 20.01	C
MOTA	1112				1.812			1.00 20.65	C
MOTA	1113				0.907		-1.612	1.00 20.22	C
MOTA	1114				0.536		-3.05€	1.00 19.41	N
MOTA	1115		LYS A 66		5.903			1.00 19.51	C
MOTA	1116		LYS A .66		6.241	404		1.00 19.25	0
ATOM	1117		THR A 66		5.956			1.00 18.62	N
MOTA	1118	. 14	1 11 00	~					

ATOM	1119	CA	THR A	668	6.436	27.155	-5.341	1.00 18.09	С
ATOM	1120	CB	THR A		6.503	28.474	-6.145	1.00 18.36	C
MOTA	1121	OG1			5.250	29.165	-6.068	1.00 20.06	0
MOTA	1122	CG2			6.806	28.168	-7.605	1.00 16.41	C
ATOM	1123	С	THR A		7.845	26.557	-5.278	1.00 18.79	C
ATOM	1124	0	THR A	668	8.154	25.623	-6.015	1.00 19.57	0
ATOM	1125	N	LEU A		8.698	27.094	-4.407	1.00 17.40	Ŋ
ATOM	1126	CA	LEU A		10.051	26.561	-4.265	1.00 17.47	C
ATOM	1127	CB	LEU A		10.838	27.363	-3.227	1.00 17.26	C
MOTA	1128	CG	LEU A	669	11.230	28.785	-3.660	1.00 17.73	C
MOTA	1129		LEU A		11.915	29.534	-2.513	1.00 17.23	C
MOTA	1130	CD2	LEU A	669	12.152	28.694	-4.862	1.00 16.78 1.00 18.88	C
MOTA	1131	С	LEU A		10.047	25.077	-3.882	1.00 18.88 1.00 20.45	Ö
MOTA	1132	0	LEU A		10.972	24.344	-4.231	1.00 20.45	N
MOTA	1133	N	LEU A		9.015	24.628	-3.168	1.00 10.00	C
ATOM	1134	CA	LEU A		8.922	23.218	-2.786 -1.743	1.00 17.30	č
MOTA	1135	CB	LEU A		7.823	23.008 23.554	-0.345	1.00 16.07	Č
ATOM	1136	CG	LEU A		8.127 6.959	23.225	0.576	1.00 14.22	C
MOTA	1137		LEU A		9.430	22.953	0.182	1.00 10.78	С
ATOM	1138		LEU A LEU A		8.640	22.335	-3.992	1.00 16.98	С
ATOM	1139	C	LEU A		8.924	21.139	-3.981	1.00 17.59	0
ATOM	1140	N O	LEU A		8.071	22.924	-5.033	1.00 18.06	N
MOTA	1141 1142	CA	LEU A		7.762	22.183	-6.257	1.00 18.65	С
ATOM ATOM	1142	CB	LEU A		6.894	23.041	-7.183	1.00 19.05	С
ATOM	1144	CG	LEU A		5.893	22.436	-8.175	1.00 20.75	С
ATOM	1145	CD1			5.792	23.368	-9.379	1.00 18.13	C
ATOM	1146		LEU A		6.317	21.057	-8.615	1.00 22.35	C
ATOM	1147	C	LEU A	671	9.088	21.905	-6.954	1.00 19.74	C
ATOM	1148	0	LEU A		9.214	20.965	-7.740	1.00 18.68	0
MOTA	1149	N	LEU A		10.076	22.739	-6.636	1.00 20.29	N C
MOTA	1150	CA	LEU A		11.403	22.668	-7.233	1.00 20.68 1.00 19.45	C
MOTA	1151	CB	LEU A		11.754	24.038	-7.831	1.00 19.45	Č
MOTA	1152	CG	LEU A		10.575	24.758	-8.510 -8.956	1.00 18.14	Č
MOTA	1153	CD1			10.983	26.155	-9.697	1.00 17.20	č
ATOM	1154	CD2			10.100	23.939 22.279	-6.230	1.00 20.29	Č
ATOM	1155	C	LEU A		12.475 13.613	22.698	-6.365	1.00 21.35	Ō
MOTA	1156	0	LEU A		12.124	21.479	-5.232	1.00 22.83	N
ATOM	1157	N	SER A SER A		13.098	21.093	-4.215	1.00 25.61	С
ATOM	1158 1159	CA CB	SER A		12.414	21.023	-2.849	1.00 25.01	С
ATOM	1160	OG	SER A		11.273	20.171	-2.870	1.00 25.80	0
ATOM ATOM	1161	C	SER A		13.866	19.797	-4.489	1.00 28.68	С
ATOM	1162	ŏ	SER A		14.851	19.516	-3.814	1.00 29.61	0
ATOM	1163	N	SER A		13.416	19.017	-5.473	1.00 32.04	N
ATOM	1164	CA	SER A	674	14.069	17.760	-5.851	1.00 33.89	C
ATOM	1165	CB	SER A	674	13.298	16.559	-5.300	1.00 33.29	Ç
ATOM	1166	OG	SER A	674	13.627	16.313	-3.947	1.00 34.50	0
ATOM	1167	С	SER A		14.218	17.593	-7.367	1.00 35.70 1.00 36.96	0
ATOM	1168	0	SÉR A		13.335	17.963	-8.136	1.00 30.90	N
MOTA	1169	N	VAL A		15.344	17.024 16.785	-7.783 -9.191	1.00 37.07	Ċ
MOTA	1170	CA	VAL A		15.637	17.879	-9.741	1.00 38.56	Č
MOTA	1171	CB	VAL A		16.597 17.100		-11.134	1.00 39.62	C
MOTA	1172		VAL A		15.867	19.217	-9.801	1.00 37.67	С
ATOM	1173		VAL A		16.286	15.406	-9.313	1.00 40.02	С
MOTA	1174	C	VAL A		16.931	14.941	-8.371	1.00 39.57	0
MOTA	1175 1176	N O	PRO A		16.094		-10.459	1.00 41.60	N
MOTA	1177	CD	PRO A		15.187		-11.578	1.00 41.87	С
MOTA MOTA	1178	CA	PRO A		16.695		-10.644	1.00 42.00	C
ATOM ATOM	1179	CB	PRO A		16.177		-12.017	1.00 41.77	С
ATOM	1180	CG	PRO A		14.882		-12.136	1.00 41.87	C
ATOM	1181	C	PRO A		18.214		-10.625	1.00 42.91	C
ATOM	1182	ō	PRO A		18.754		-10.972	1.00 42.14	0
ATOM	1183	N	LYS A		18.900		-10.217	1.00.46.47	N
ATOM	1184	CA	LYS A		20.365	12.459	-10.172	1.00 49.54	С

		an	T 370	70.	C77	20.912	11.094	-9.736	1.00	50.75	С
ATOM	1185	CB	LYS								Ċ
MOTA	1186	CG	LYS	Α	677	21.510	11.038	-8.334		52.00	
			LYS			20.443	11.011	-7.256	1.00	53.60	С
MOTA	1187	CD								52.72	С
MOTA	1188	CE	LYS	Α	677	21.029	10.647	-5.894			
		NZ	LYS	70	677	21.914	11.716	-5.362	1.00	54.17	N
MOTA	1189									50.54	C
ATOM	1190	С	LYS	Α	677	20.941		-11.545			
	1191	0	LYS			21.863	13.610	-11.659	1.00	50.25	0
ATOM										52.11	N
ATOM	1192	N	ASP	A	678	20.389		-12.585			
ATOM	1193	CA	ASP	7Δ	678	20.854	12.397	-13.954	1.00	54.21	С
								-14.848	1 00	56.12	C
ATOM	1194	CB	ASP	A	6/8	20.415					
MOTA	1195	CG	ASP	Α	678	18.959	10.835	-14.634		59.10	С
						18.053	11 617	-15.004	1.00	59.04	0
ATOM	1196		ASP							61.96	0
MOTA	1197	OD2	ASP	A	678	18.721		-14.087			
	1198	С	ASP	Δ	678	20.406	13.731	-14.569	1.00	53.68	С
ATOM							14 020	-15.718	1 00	54.41	0
ATOM	1199	0	ASP	A	6/8	20.740	14.030	-13.710			
ATOM	1200	N	GLY	Α	679	19.656	14.520	-13.803	1.00	51.40	N
						19.192		-14.296	1.00	49.06	С
ATOM	1201	CA	GLY								
ATOM	1202	С	GLY	Α	679	17.871	15.762	-15.050		48.05	С
			GLY			17.336	14 694	-15.352	1.00	47.80	0
ATOM	1203	0								46.40	N
MOTA	1204	N	LEU	А	680	17.347		-15.356			
ATOM	1205	CA	LEU	Α	680	16.087	17.085	-16.070	1.00	45.15	C
						15.327		-15.548	1.00	44.21	С
ATOM	1206	CB	LEU								
ATOM	1207	CG	LEU	Α	680	14.969		-14.058		42.73	C
			LEU		_	14.546	19 743	-13.670	1.00	42.42	С
ATOM	1208	CD1					17 745	12 767		39.89	С
ATOM	1209	CD2	LEU	Α	680	13.863		-13.767			
ATOM	1210	С	LEU	А	680	16.344	17.259	-17.557		45.21	С
						17.495		-18.000	1.00	45.81	0
ATOM	1211	0	LEU								N
ATOM	1212	N	LYS	Α	681	15.269	17.390	-18.327		45.24	
•	1213	CA	LYS			15.398	17.589	-19.765	1.00	46.30	С
ATOM								-20.451		48.09	С
ATOM	1214	CB	LYS	Α	98T	14.024					
ATOM	1215	CG	LYS	Α	681	13.602	16.210	-21.002		49.65	С
			LYS			13.266	15 222	-19.899	1.00	52.60	С
ATOM	1216	CD									С
ATOM	1217	CE	LYS	Α	681	12.731		-20.483		53.40	
MOTA	1218	NZ	LYS	Δ	681	11.558	14.171	-21.370	1.00	53.89	N
						16.059		-19.992	1 00	45.35	С
MOTA	1219	С	LYS								
MOTA	1220	0	LYS	Α	681	17.096	19.046	-20.650	T.00	46.12	0
	1221	N	SER	Δ	682	15.452	19.987	-19.440	1.00	44.06	N
ATOM								-19.566	1 00	44.15	С
ATOM	1222	CA	SER	A	082	15.993					
ATOM	1223	CB	SER	Α	682	14.959		-20.200		46.02	С
		OG	SER			13.738	22 262	-19.483	1.00	48.76	0
ATOM	1224									42.78	С
ATOM	1225	С	SER	Α	682	16.413		-18.198			
ATOM	1226	0	SER	Ά	682	15.763	22.722.	-17.626	1.00	41.63	0
						17.506		-17.683	1.00	42.98	N
ATOM	1227	N	GLN								С
ATOM	1228	CA	GLN	Α	683	18.047		-16.384		44.09	
	1229	CB	GLN	Δ	683	19.311	20.868	-16.068	1.00	44.53	С
ATOM									1 00	46.82	С
ATOM	1230	CG	GLN			19.841	21.074	-14.653			
ATOM	1231	CD	GLN	Α	683	19.056	20.299	-13.593	1.00	49.02	С
			GLN			19.036	20 677	-12.421	1.00	50.99	0
MOTA	1232								1 00	50.06	N
ATOM	1233	NE2	GLN	Α	683	18.425		-14.000			
ATOM	1234	С	GLN	Δ	683	18.393	23.159	-16.363	1.00	44.36	С
								-15.327	1 00	44.59	0
ATOM	1235	0	GLN			18.298			7.00	45 23	
ATOM	1236	N	GLU	Α	684	18.792		-17.519	1.00	45.31	N
	1237	CA	GLU			19.175	25 083	-17.645	1.00	45.83	С
MOTA									1 00	50.00	С
MOTA	1238	CB	GLU	A	684	19.847		-19.004	1.00	50.00	
ATOM	1239	CG	GLU	А	684	21.116	24.496	-19.245	1.00	53.64	C
						20.818		-19.602	1.00	57.38	С
MOTA	1240	CD	GLU						1 00	E0 0E	
MOTA	1241	OE1	GLU	Α	684	21.762		-19.571	1.00	59.95	0
	1242	OE2	GLU			19.648	22,718	-19.923	1.00	57.21	0
ATOM									1 00	43.87	С
ATOM	1243	С	GLU	Α	684	18.001		-17.464	1.00	42.04	
MOTA	1244	0	GLU	A	684	18.155	27.116	-16.901	1.00	43.94	0
			LEU			16.831		-17.951	1.00	41.57	N
MOTA	1245	N							1 00	39.24	C
ATOM	1246	CA	LEU	Α	685	15.643		-17.798			
ATOM.	1247	СВ	LEU			14.511	25.938	-18.678	1.00	39.22	С
						13.402		-19.154	1 00	38.34	С
MOTA	1248	CG	LEO						1 00	30 03	Č
ATOM	1249	CD1	LEU	Α	685	12.294		-19.789		38.02	
ATOM	1250		LEU			12.843	27.714	-18.006	1.00	36.92	С
437-074	~_~										

						06 050 16 030	1.00 38.89	С
ATOM	1251	С	LEU A	685	15.234	26.358 -16.330		ŏ
ATOM	1252	0	LEU A		14.934	27.358 -15.678	1.00 38.67	
	_		PHE A		15.235	25.131 -15.821	1.00 38.06	N
ATOM	1253	N			14.878	24.861 -14.435	1.00 36.79	С
ATOM	1254	CA	PHE A				1.00 34.50	С
ATOM	1255	CB	PHE A	686	15.182	23.399 -14.095		č
ATOM	1256	CG	PHE A	686	14.911	23.045 -12.659	1.00 31.05	
			PHE A		13.617	22.828 -12.217	1.00 28.43	С
ATOM	1257					22.983 -11.741	1.00 31.24	С
ATOM	1258		PHE A		15.952		1.00 29.05	С
ATOM	1259	CE1	PHE A	686	13.356	22.559 -10.883		
MOTA	1260		PHE A		15.706	22.715 -10.401	1.00 32.60	C
			PHE A		14.399	22.503 -9.970	1.00 32.35	С
ATOM	1261	CZ			15.618	25.781 -13.448	1.00 38.31	С
ATOM	1262	С	PHE A				1.00 37.53	0
ATOM	1263	0	PHE A	686	14.987	26.468 -12.637		
ATOM	1264	N	ASP A	687	16.950	25.788 -13.512	1.00 38.62	N
		CA	ASP A		17.751	26.621 -12.617	1.00 38.86	С
ATOM	1265				19.238	26.582 -12.999	1.00 39.39	С
MOTA	1266	CB	ASP A			25.179 -12.935	1.00 41.58	С
MOTA	1267	CG	ASP A		19.834		1.00 42.64	Ö
ATOM	1268	OD1	ASP A	687	19.569	24.444 -11.952		
	1269		ASP A		20.586	24.821 -13.869	1.00 39.90	0
MOTA			ASP A		17.274	28.071 -12.642	1.00 39.11	C
MOTA	1270	С				28.740 -11.613	1.00 39.52	0
ATOM	1271	0	ASP A		17.254		1.00 38.90	N
MOTA	1272	N	GLU A	688	16.896	28.561 -13.816		
MOTA	1273	CA	GLU A	688	16.427	29.936 -13.920	1.00 40.57	C
			GLU A		16.232	30.349 -15.382	1.00 43.83	С
ATOM	1274	CB			17.391	29.977 -16.285	1.00 51.85	С
MOTA	1275	CG	GLU A			30.517 -17.702	1.00 56.49	С
MOTA	1276	CD	GLU A		17.237	30.517 -17.702		Ö
ATOM	1277	OE1	GLU A	688	17.963	30.027 -18.598	1.00 58.12	
	1278		GLU A		16.406	31.433 -17.917	1.00 58.33	0
MOTA			GLU A		15.113	30.094 -13.180	1.00 37.92	С
MOTA	1279	С				30.991 -12.359	1.00 38.28	0
ATOM	1280	0	GLU A		14.974	30.991 -12.333	1.00 35.67	N
MOTA	1281	N	ILE A	689	14.155	29.220 -13.481		
ATOM	1282	CA	ILE A		12.840	29.251 -12.845	1.00 32.76	C
		CB	ILE A		11.963	28.035 -13.245	1.00 32.74 ·	С
MOTA	1283				10.568	28.205 -12.663	1.00 32.12	С
ATOM	1284	CG2				27.897 -14.766	1.00 33.76	С
MOTA	1285	CG1	ILE A	689	11.888	27.897 -14.700		č
ATOM	1286	CD1	ILE A	689	11.097	26.673 -15.241	1.00 31.81	
ATOM	1287	C	ILE A		12.972	29.215 -11.327	1.00 30.27	С
			ILE A		12.295	29.959 -10.616	1.00 29.85	0
ATOM	1288	0				28.339 -10.831	1.00 27.25	· N
ATOM	1289	N	ARG A		13.838		1.00 26.70	С
ATOM	1290	CA	ARG A		14.020	28.217 -9.394		č
ATOM	1291	CB	ARG A	690	14.901	27.013 -9.061	1.00 26.23	
	1292	CG	ARG A		14.970	26.699 - 7.570	1.00 29.83	С
ATOM			ARG A		15.202	25.214 -7.333	1.00 32.12	C
MOTA	1293	CD				24.868 -5.916	1.00 32.91	N
MOTA	1294	NE	ARG A		15.257		1.00 35.77	С
MOTA	1295	CZ	ARG A	690	16.268	25.183 -5.113		
ATOM	1296	NH1			17.307	25.852 -5.598	1.00 35.02	Ŋ
	1297		ARG A		16.242	24.833 -3.828	1.00 35.15	N
MOTA					14.624	29.481 -8.811	1.00 25.65	С
ATOM	1298	С	ARG A				1.00 25.19	0
MOTA	1299	0	ARG A		14.284		1.00 25.28	N
ATOM	1300	N	MET A	691	15.504	30.122 -9.575	1.00 25.20	
	1301	CA	MET A		16.157	31.346 -9.127	1.00 26.88	С
ATOM			MET A		17.350	31.684 -10.034	1.00 27.69	С
MOTA	1302	CB				32.878 -9.583	1.00 28.87	С
MOTA	1303	CG	MET A		18.200		1.00 33.69	S
ATOM	1304	SD	MET A	691	18.966	32.706 -7.929	1.00 33.03	5
ATOM	1305	CE	MET A		· 20.087	31.350 -8.203	1.00 31.56	C
	1306	C	MET A		15.199	32.531 -9.078	1.00 27.25	С
MOTA					15 040	33.325 -8.143	1.00 27.08	0
ATOM		0	MET A				1.00 27.92	N
MOTA	1308	N	THR A		14.311		1 00 20 52	C
MOTA	1309	CA	THR A	692	13.405	33.795 -10.034	1.00 29.53	
	1310		.THR A		12.590	33.944 -11.361	1.00 28.67	C.
ATOM					11.290	33.365 -11.213	1.00 32.07	0
ATOM	1311	OGT	THR A	072			1.00 28.06	С
MOTA	1312	CG2	THR A	692	13.319	-	1.00 29.68	Č
ATOM	1313	С	THR A	692	12.464	33.728 -8.832	1.00 23.00	
ATOM	1314	ō	THR A	692	12.056	34.770 -8.306	1.00 30.95	,0,
			TYR A		12.139	32.513 -8.385	1.00 29.07	N
MOTA	1315	N			11.262	32.348 -7.230	1.00 28.24	С
ATOM	1316	CA	TYR A	093	11.202	32.340 7.230		

	1017	CB	TYR A	693	10.588	30.979	-7.248	1.00 27	. 45	C
ATOM	1317	CB	TYR A	693	9.448	30.953	-8.226	1.00 27	.19	C
ATOM	1318	CG CD1	TYR A	693	8.343	31.790	-8.050	1.00 27	.66	C
ATOM	1319	CE1	TYR A	693	7.327	31.845	-9.004	1.00 28	.20	C
ATOM	1320	CD3	TYR A	693	9.506	30.161	-9.371	1.00 25	.22	C
ATOM	1321	CE2	TYR A	693	8.505	30,205	-10.325	1.00 24	.86	C
ATOM	1322	CEZ	TYR A	693	7.418	31.050	-10.145	1.00 26	. 65	0
ATOM	1323	OH	TYR A	693	6.444	31.123	-11.121	1.00 26	.67	C
ATOM	1324 1325	C	TYR A	693	12.019	32.556	-5.933	1.00 27	.30	0
ATOM	1325	Ö	TYR A	693	11.431	32.899	-4.916	1.00 26	.95	N
ATOM ATOM	1327	N	ILE A	694	13.329	32.341	-5.976	1.00 25	. 29	Č
ATOM	1328	CA	ILE A	694	14.166	32.566	-4.810	1.00 22 1.00 22	.49	č
ATOM	1329	CB	ILE A	694	15.590	32.020	-5.043	1.00 22	21	č
ATOM	1330	CG2	ILE A		16.555	32.558	-3.975	1.00 20	54	č
ATOM	1331	CG1	ILE A	694	15.548	30.492	-5.057	1.00 20	18	Ċ
MOTA	1332	CD1	ILE A	694	16.820	29.831	-5.541	1.00 22	37	Č
ATOM	1333	С	ILE A	694	14.211	34.079	-4.615	1.00 21	. 44	0
ATOM	1334	0	ILE A	694	14.083	34.575	-3.498 -5.711	1.00 22	. 80	N
ATOM	1335	N	LYS A	695	14.385	34.814	-5.639	1.00 25	3.33	C
ATOM	1336	CA	LYS A	695	14.418	36.270	-6.961	1.00 25	.07	С
ATOM	1337	CB	LYS A	695	14.918	36.866 36.247	-7.420	1.00 30	28	С
MOTA	1338	CG	LYS A	695	16.230	37.278	-7.965	1.00 32	2.15	С
MOTA	1339	CD	LYS A	695	17.228	37.648	-9.407	1.00 30	0.01	С
MOTA	1340	CE	LYS A	695	16.937 16.956	36 441	-10.256	1.00 28	3.26	N
ATOM	1341	NZ	LYS A	695	13.010	36.782	-5.319	1.00 25	5.73	С
ATOM	1342	C	LYS A	695	12.844	37.826	-4.694	1.00 24	1.12	0
MOTA	1343	0	LYS A	095	11.996	36.034	-5.739	1.00 27	7.02	N
MOTA	1344	N	GLU F		10.621	36.435	-5.468	1.00 30	0.00	C
ATOM	1345	CA	GLU F	1 696	9.652	35.558	-6.266	1.00 3	1.62	C
MOTA	1346	CB	GLU F	1 090 1 696	8.249	36.134	-6.443	1.00 3	5.63	C
MOTA	1347	CG CD	GLU F	4 696	8.238	37.501	-7.113	1.00 3	7.94	C
MOTA	1348	OE1	_	4 696	8.967	37.685	-8.115	1.00 3	8.78	0 0
MOTA	1349 1350		GLU A		7.486	38.388	-6.640	1.00 3	7.89	C
ATOM	1351	C	GLU A	A 696	10.388	36.299	-3.957	1.00 3	1 00	Ö
ATOM ATOM	1352	ŏ	GLU A	A 696	9.678	37.108	-3.353	1.00 3	1.90 0.07	N
ATOM	1353	Ŋ	LEU Z	A 697	10.998	35.282	-3.345	1.00 2	7 69	Č
ATOM	1354	CA	LEU A	A 697	10.882	35.086	-1.902	1.00 2	4 96	Ċ
ATOM	1355	CB	LEU A	A 697	11.573	33.786	-1.466 0.047	1.00 2	5.29	С
ATOM	1356	CG	LEU Z	A 697	11.774	33.592	0.760	1.00 2	4.14	С
ATOM	1357	CD1	LEU 2	A 697	10.430	33.618 32.281	0.321	1.00 2	4.08	С
ATOM	1358		LEU A	A 697	12.495	36.287	-1.235	1.00 2	8.29	C.
MOTA	1359	С	LEU	A 697	11.561 11.003	36.912		1.00 2	8.81	0
MOTA	1360	0	LEU	A 697	12.767	36.604	-1.699	1.00 2	7.70	Ň
MOTA	1361	N	GLY A	A 698	13.499	37.738	-1.165	1.00 2	8.21	С
MOTA	1362		GLY.	A 698 A 698	12.693	39.028	-1.213	1.00 2	8.68	C
ATOM	1363		CIV	A 698	12.801	39.870	-0.315	1.00 2	8.71	0
ATOM	1364		T.VC	A 699	11.890	39.198	-2.260	1.00 2	8.92	N
ATOM	1365		T.YS	A 699	11.054	40.391	-2.372	1.00 3	10.57	C
MOTA	1366 1367		LYS	A 699	10.401	40.485		1.00 3	11.39	C C
MOTA	1368		LYS	A 699	11.356			1.00 3	2.00	,Č
ATOM ATOM	1369		LYS	A 699	10.593	40.787		1.00 3 1.00 3	19 17	č
ATOM	1370		LYS	A 699	11.555			1.00 3	36 39	N
ATOM	1371		LYS	A 699	10.872	41.099			30.33	Ċ
ATOM	1372		LYS	A 699	9.955		-1.309 -0.856		32.11	ادر 0
, ATOM	1373			A 699	9.525	41.428			29.32	N
ATOM	1374		ALA	A 700	9.503				30.48	С
ATOM	1375	CA	ALA	A 700	8.453				30.02	С
ATOM	1376		ALA	A 700	7.800			4 00 -	31.46	С
MOTA	1377		ALA	A 700	9.018			1.00	31.19	0
MOTA	1378		ALA	A 700	8.330 10.273			1.00	32.63	N
MOTA	1379		ILE	A 701	10.273			1.00	33.82	C
MOTA	1380		TPE	A 701	12.260			. 1.00	32.82	C
MOTA	1381		ILE.	A 701	12.200			1.00	31.37	С
MOTA	1382	2 CG	< 111E	A 701	12.50,		•			

7 most	1383	CCI	ILE A 701	11.975	36.827	2.951	1.00 29.56	С
MOTA	1384	CD1		13.201	35.960	3.037	1.00 28.16	С
ATOM ATOM	1385	CDI	ILE A 701	11.274	40.595	3.142	1.00 36.47	С
ATOM	1386	Ö	ILE A 701	11.193	41.149	4.240	1.00 36.90	0
ATOM	1387	N	VAL A 702	11.662	41.229	2.042	1.00 39.58	Ŋ
ATOM	1388	CA	VAL A 702	12.002	42.640	2.070	1.00 42.77	C
ATOM	1389	CB	VAL A 702	12.752	43.057	0.791	1.00 42.44	C
ATOM	1390		VAL A 702	12.914	44.569	0.741	1.00 41.22	C
ATOM	1391		VAL A 702	14.112	42.389	0.767	1.00 42.49	C
ATOM	1392	C	VAL A 702	10.733	43.460	2.221	1.00 45.14	C
ATOM	1393	ō	VAL A 702	10.705	44.432	2.978	1.00 46.12	0
ATOM	1394	N	LYS A 703	9.684	43.062	1.506	1.00 47.91	N
ATOM	1395	CA	LYS A 703	8.403	43.756	1.584	1.00 51.90	C C
ATOM	1396	СВ	LYS A 703	7.341	43.029	0.750	1.00 51.46	C
ATOM	1397	CG	LYS A 703	5.997	43.747	0.688	1.00 51.03	C
ATOM	1398	CD	LYS A 703	5.135	43.208	-0.447	1.00 51.73 1.00 50.49	Č
MOTA	1399	CE	LYS A 703	3.858	44.012	-0.611	1.00 51.56	N
MOTA	1400	NZ	LYS A 703	3.125	43.619	-1.845 3.048	1.00 55.10	Ċ
MOTA	1401	С	LYS A 703	7.977	43.798 44.742	3.490	1.00 55.48	Ö
ATOM	1402	0	LYS A 703	7.328	44.742	3.792	1.00 59.04	N
MOTA	1403	N	ARG A 704	8.352 8.047	42.702	5.215	1.00 62.52	С
ATOM	1404	CA	ARG A 704	8.384	41.262	5.712	1.00 61.41	С
ATOM	1405	CB	ARG A 704 ARG A 704	7.514	40.737	6.833	1.00 59.47	С
ATOM	1406	CG	ARG A 704 ARG A 704	7.402	39.226	6.714	1.00 59.10	С
MOTA	1407	CD NE	ARG A 704	6.822	38.601	7.898	1.00 58.65	N
ATOM	1408 1409	CZ	ARG A 704	7.410	38.578	9.090	1.00 59.78	С
ATOM ATOM	1410		ARG A 704	8.597	39.149	9.253	1.00 60.35	N
ATOM	1411		ARG A 704	6.818	37.982	10.119	1.00 59.74	N
ATOM	1412	C	ARG A 704	8.956	43.721	5.857	1.00 65.69	C
ATOM	1413	0	ARG A 704	8.757	44.918	5.647	1.00 66.70	0
ATOM	1414	N	GLU A 705	9.956	43.285	6.619	1.00 68.89	N C
ATOM	1415	CA	GLU A 705	10.898	44.218	7.240	1.00 71.53 1.00 70.37	C
MOTA	1416	CB	GLU A 705	10.193	45.121	8.267	1.00 68.88	č
MOTA	1417	CG	GLU A 705	9.634	46.411	7.672 6.622	1.00 67.84	Č
ATOM	1418	CD	GLU A 705	10.556 11.718	47.019 47.342	6.952	1.00 66.93	0
MOTA	1419	OE1		10.117	47.171	5.463	1.00 67.14	0
ATOM	1420	OE2	GLU A 705	12.142	43.596	7.886	1.00 73.65	С
MOTA	1421 1422	C O	GLU A 705	12.179	42.406	8.239	1.00 73.25	0
MOTA	1422	N	GLY A 706	13.158	44.444	8.028	1.00 75.72	N
ATOM ATOM	1424	CA	GLY A 706	14.427	44.056	8.613	1.00 77.54	C
MOTA	1425	C	GLY A 706	15.432	45.157	8.325	1.00 78.76	C
ATOM	1426	ō	GLY A 706	15.403	45.767	7.249	1.00 77.81	0
ATOM	1427	N	ASN A 707	16.313	45.426	9.285	1.00 80.16	N C
ATOM	1428	CA	ASN A 707	17.322	46.466	9.116	1.00 81.05 1.00 81.76	C
ATOM	1429	CB	ASN A 707	17.788	46.987	10.485	1.00 81.76	C
MOTA	1430	CG	ASN A 707	18.264	48.441	10.439	1.00 81.94	ő
MOTA	1431	OD1	ASN A 707	19.170	48.792	9.677 11.264	1.00 80.25	N
ATOM	1432		ASN A 707	17.652	49.290 45.885	8.343	1.00 81.72	Ċ
MOTA	1433	C	ASN A 707	18.504	45.881	8.831	1.00 82.56	0
MOTA	1434	0	ASN A 707	19.637 18.219	45.381	7.141	1.00 81.77	N
MOTA	1435	N	SER A 708 SER A 708	19.228	44.788	6.260	1.00 80.86	С
MOTA	1436	CA	SER A 708	20.302	45.832	5.914	1.00 81.99	С
MOTA	1437 1438	CB OG	SER A 708	21.266	45.310	5.012	1.00 82.02	0
MOTA	1439	C	SER A 708	19.895	43.538		1.00 79.74	1. C
ATOM ATOM	1440	Ö	SER A 708	•	42.690	6.101	1.00 79.98	0
ATOM	1441	N	SER A 709		43.427	8.170	1.00 77.83	N.
ATOM	1442	CA	SER A 709	20.510	42.287	8.849	1.00 75.92	C
ATOM	1443	CB	SER A 709	21.209	42.755	10.128	1.00 75.37	C
ATOM	1444	OG	SER A 709	22.195	43.728	9.838	1.00 76.62	O
ATOM	1445	С	. SER A 709	19.496	41.199	9.198	1.00 73.87 1.00 72.97	0
MOTA	1446	0	SER A 709	19.838	40.013	9.254	1.00 72.97	N
ATOM	1447.	N	GLN A 710	18.252		9.434 9.787	1.00 71.32	C
ATOM	1448	CA	GLN A 710	17.206	40.662	7.101	1.00 00.00	J

	-	GIN D 710	16.140	41.340	10.654	1.00 71.12	C
ATOM	1449	CB GLN A 710 CG GLN A 710	15.270	40.349	11.431	1.00 73.78	C C
ATOM	1450	CG GLN A 710 CD GLN A 710	16.091	39.273	12.145	1.00 74.98	Ö
ATOM	1451 1452	OE1 GLN A 710	17.012	39.580	12.907	1.00 75.50	Ŋ
MOTA	1452	NE2 GLN A 710	15.754	38.006	11.900	1.00 75.45 1.00 65.05	C
MOTA MOTA	1454	C GLN A 710	16.567	40.018	8.560	1.00 64.34	ŏ
ATOM	1455	O GLN A 710	16.099	38.882	8.630	1.00 60.66	Ŋ
ATOM	1456	N ASN A 711	16.540	40.735	7.437 6.228	1.00 55.86	Ĉ
ATOM	1457	CA ASN A 711	15.978	40.151	5.107	1.00 56.63	С
ATOM	1458	CB ASN A 711	.15.851	41.194	5.186	1.00 57.48	С
ATOM	1459	CG ASN A 711	16.898	42.283 42.010	5.221	1.00 58.78	0
ATOM	1460	OD1 ASN A 711	18.094 16.449	43.533	5.198	1.00 58.96	N
ATOM	1461	ND2 ASN A 711	16.845	38.962	5.786	1.00 51.87	C
MOTA	1462	C ASN A 711	16.336	37.991	5.230	1.00 51.44	0
MOTA	1463	O ASN A 711 N TRP A 712	18.147	39,036	6.052	1.00 46.43	N
ATOM	1464	N TRP A 712 CA TRP A 712	19.057	37.952	5.712	1.00 42.91	C C
ATOM	1465 1466	CB TRP A 712	20.506	38.436	5.704	1.00 39.68	c
MOTA	1467	CG TRP A 712	20.906	38.997	4.395	1.00 37.68 1.00 36.30	Č
MOTA MOTA	1468	CD2 TRP A 712	20.793	38.354	3.119	1.00 36.03	č
ATOM	1469	CE2 TRP A 712	21.270	39.260	2.156 2.698	1.00 36.25	c
ATOM	1470	CE3 TRP A 712	20.334	37.098	4.161	1.00 37.00	С
ATOM	1471	CD1 TRP A 712	21.435	40.229 40.396	2.818	1.00 37.53	N
ATOM	1472	NE1 TRP A 712	21.656	38.953	0.791	1.00 35.36	С
ATOM	1473	CZ2 TRP A 712	21.300 20.366	36.791	1.343	1.00 34.90	С
ATOM	1474	CZ3 TRP A 712	20.846	37.716	0.406	1.00 34.68	C
MOTA	1475	CH2 TRP A 712 C TRP A 712	18.907	36.842	6.732	1.00 42.51	C
MOTA	1476 1477	C TRP A /12 O TRP A 712	18.891	35.662	6.392	1.00 43.40	О И
MOTA	1478	N GLN A 713	18.807	37.231	7.994	1.00 41.07 1.00 38.78	C
ATOM ATOM	1479	CA GLN A 713	18.640	36.259	9.055	1.00 38.70	č
ATOM	1480	CB GLN A 713	18.555	36.968	10.394 11.599	1.00 50.56	Č
ATOM	1481	CG GLN A 713	18.818	36.075	11.456	1.00 55.94	C
ATOM	1482	CD GLN A 713	20.085	35.208 35.536	10.692	1.00 58.36	0
ATOM	1483	OE1 GLN A 713	21.006 20.137	34.111	12.202	1.00 55.63	N
MOTA	1484	NE2 GLN A 713		35.527	8.762	1.00 35.32	C
ATOM	1485	C GLN A 713 O GLN A 713		34.315	8.936	1.00 33.60	0
ATOM	1486 1487	O GLN A /13 N ARG A 714	16.342	36.270	8.301	1.00 31.78	N C
MOTA	1488	CA ARG A 714	15.051	35.681	7.995	1.00 29.47 1.00 26.76	C
ATOM ATOM	1489	CB ARG A 714	14.000	36.766	7.771	1.00 24.13	Č
ATOM	1490	CG ARG A 714	12.621	36.184	7.586 7.616	1.00 23.66	Ċ
ATOM	1491	CD ARG A 714	11.539	37.235	7.589	1.00 21.91	N
ATOM	1492	NE ARG A 714	10.214 9.702	36.621 35.903	8.585	1.00 21.33	С
MOTA	1493	CZ ARG A 714			9.700	1.00 16.47	N
ATOM	1494	NH1 ARG A 714			8.455	1.00 23.12	N
MOTA	1495	NH2 ARG A 714 C ARG A 714		34.793	6.762	1.00 28.68	C
MOTA	1496 1497	O ARG A 714			6.668	1.00 27.60	O N
ATOM	1497	N PHE A 715			5.814	1.00 27.84	N C
ATOM ATOM	1499	CA PHE A 715	16.168	34.425	4.597	1.00 26.96 1.00 25.94	Č
ATOM	1500	CB PHE A 715	17.117		3.645	1.00 26.27	Č
MOTA	1501	CG PHE A 715	17.391		2.382 1.454		C
ATOM	1502	CD1 PHE A 715	16.375			40	С
ATOM	1503	CD2 PHE A 715	18.662		0.278		С
MOTA	1504	CE1 PHE A 715	16.623			1.00 25.54	3, C
MOTA	1505	CE2 PHE A 715	18.917 17.895			1.00 23.41	C
MOTA	1506	CZ PHE A 71			4.975	1.00 27.29	C
ATOM	1507	C PHE A 71:			4.351	1.00 27.72	0
MOTA	1508	N TYR A 71:			6.010		N C
MOTA	1509 1510	CA TYR A 71		31.866	6.504	1.00 28.86	C
MOTA	1511	CB TYR A 71	19.362	32.229	7.434		C
ATOM ATOM	1512	CG TYR A 71	20.081	31.051			č
ATOM	1513	CD1 TYR A 71	19.534				Č
ATOM	1514	CE1 TYR A 71	5 20.208	29.272	9.000	1.00 00.00	

								1.00 33.66	С
ATOM	1515	CD2	TYR A	716	21.32	2 30.640	7.560		
		CE2	TYR A		22.00		8.124	1.00 34.94	С
ATOM	1516				21.44		9.189	1.00 36.33	С
MOTA	1517	CZ	TYR A				9.727	1.00 38.02	0
ATOM	1518	OH	TYR A	716	22.11				Č
ATOM	1519	С	TYR A	716	17.16	4 31.018	7.244	1.00 29.13	
			TYR A		17.14	2 29.801	7.096	1.00 31.03	0
MOTA	1520	0			16.31		8.039	1.00 28.67	N
MOTA	1521	N	GLN A				8.795	1.00 28.75	С
MOTA	1522	CA	GLN A	717	15.28	0 30.955			
ATOM	1523	CB	GLN A		14.56	9 31.907	9.760	1.00 29.50	C
					15.47		10.821	1.00 35.28	C
MOTA	1524	ÇĞ	GLN A				11.772	1.00 39.40	С
ATOM	1525	CD	GLN A		14.72				ŏ
MOTA	1526	OE 7	GLN A	717	14.19	9 34.506	11.371	1.00 39.87	
			GLN A		14.66		13.043	1.00 41.33	N
MOTA	1527				14.24		7.862	1.00 27.89	С
ATOM	1528	С	GLN A		-	3 30.323	8.069	1.00 27.43	0
ATOM	1529	0	GLN A	717	13.82				
ATOM	1530	N	LEU A		13.83	3 31.061	6.838	1.00 25.98	N
		CA	LEU A		12.85	7 30.551	5.889	1.00 25.25	С
ATOM	1531						5.056	1.00 23.28	С
ATOM	1532	CB	LEU A		12.28			1.00 23.59	С
MOTA	1533	CG	LEU A	718	11.58		5.858	1.00 23.33	č
ATOM	1534	CD1	LEU A	718	10.89	6 33.760	4.901	1.00 23.47	
			LEU A		10.56	1 32.212	6.830	1.00 22.06	С
MOTA	1535						4.980	1.00 26.33	С
ATOM	1536	С	LEU A		13.43		4.731	1.00 27.82	0
ATOM	1537	0	LEU A	718	12.76	5 28.443			
ATOM	1538	N	THR A		14.66	4 29.635	4.489	1.00 24.86	N
			THR A		15.27		3.631	1.00 24.23	С
ATOM	1539	CA					2.944	1.00 23.05	C
ATOM	1540	CB	THR A		16.59			1.00 24.18	0
ATOM	1541	OG1	THR A	719	17.49		3.922	1.00 24.10	
	1542	CG2			16.27	6 30.175	1.898	1.00 21.38	С
MOTA			THR A		15.56		4.452	1.00 24.68	C
ATOM	1543	С					3.926	1.00 23.31	0 `
MOTA	1544	0	THR A		15.55			1.00 25.26	N
ATOM	1545	N	LYS A	720	15.81	1 27.545	5.746		
ATOM	1546	CA	LYS A		16.05	7 26.429	6.650	1.00 25.39	C
			LYS A		16.47		8.021	1.00 27.88	С
MOTA	1547	CB					8.261	1.00 35.07	С
ATOM	1548	CG	LYS A	720	17.98			1.00 39.58	С
MOTA	1549	CD	LYS A	720	18.48		8.510		
ATOM	1550	CE	LYS A	720	19.98	7 25.486	8.777	1.00 41.66	С
			LYS A		20.46		9.077	1.00 42.32	N
ATOM	1551	NZ					6.761	1.00 24.59	С
ATOM	1552	С	LYS A		14.76			1.00 24.95	Ô
MOTA	1553	0	LYS A	720	14.78		6.702	1.00 24.93	
ATOM	1554	N	LEU A	721	13.63	5 26.297	6.898	1.00 22.78	Ŋ
			LEU A		12.35		7.000	1.00 21.27	С
MOTA	1555	CA					7.212	1.00 17.24	, C
ATOM	1556	CB	LEU A		11.22			1.00 17.24	C
ATOM	1557	CG	LEU A	721	9.81	1 26.041	7.225		
ATOM	1558	CD1		721	9.70	0 24.961	8.310	1.00 10.42	C
			LEU A	721	8.78		7.433	1.00 14.20	C
ATOM	1559		DEU A	721			5.739	1.00 21.96	С
MOTA	1560	C	LEU A		12.08			1.00 22.78	Ō
ATOM	1561	0	LEU A	721	11.66		5.830	1.00 22.10	
ATOM	1562	N	LEU A	722	12.31	6 25.385	4.567	1.00 20.84	N
			LEU A		12.11		3.315	1.00 19.20	С
MOTA	1563	CA					2.119	1.00 18.43	С
MOTA	1564	CB	LEU A		12.52			1.00 18.22	С
ATOM	1565	CG	LEU A		11.66		1.865	1.00 10.42	
ATOM	1566		LEU A		12.19	5 27.539	0.667	1.00 15.79	C
					10.21		1.614	1.00 18.71	С
MOTA	1567		LEU A				3.333	1.00 19.29	С
ATOM	1568	С	LEU A	722	12.90			1.00 19.25	0
ATOM	1569	0	LEU A	722 `	12.36	9 22.293	3.025	1.00 21.90	
		N	ASP A	723	14.18		3.700	1.00 17.90	N
MOTA	1570		TOT T	723	15.01		3.769	1.00 119.33	C:1
MOTA 1	1571	CA	ASP A	,V23			4.341	1.00 19.49	С
ATOM	1572	CB	ASP A		16.39			T.00 73.23	
ATOM	1573	CG	ASP A		17.30	5 23.269	3.346	1.00 23.73	C
		001	ASP A		16.83		2.254	1.00 23.02	0
ATOM	1574	ODT	ADP A	723			3.677	1.00 23.24	0
MOTA	1575	OD2	ASP A		18.50			1.00 21.50	č
ATOM	1576	С	ASP A	723	14.39		4.647		
		ŏ	ASP A		14.36		4.259	1.00 21.79	0
ATOM	1577						5.826	1.00 21.28	N
ATOM	1578	N	SER A		13.90			1.00 21.43	С
ATOM	1579	CA	SER A		13.32		6.767	T.00 24 25	c
	1580	СВ	SER A		12.93	3 21.279	8.081	1.00 24.25	C
ATOM	1300			· - •					

ATOM	1581	OG	SER A	A 724	11.953	22.284	7.891	1.00 30.59	0
ATOM	1582	C	SER A		12.138	19.828	6.190	1.00 21.15	C
ATOM	1583	ō	SER A		11.824	18.719	6.631	1.00 20.68	0
ATOM	1584	N	MET A		11.492	20.411	5.185	1.00 20.81	N
ATOM	1585	CA	MET A		10.359	19.744	4.557	1.00 19.28	C
ATOM	1586	CB	MET A		9.784	20.612	3.438	1.00 17.21	C
ATOM	1587	CG			9.088	21.875	3.958	1.00 17.72	· C
ATOM	1588	SD	MET A		7.756	21.536	5.174	1.00 18.39	S
ATOM	1589	CE	MET A		6.758	20.309	4.274	1.00 16.17	С
ATOM	1590	C	MET A		10.791	18.380	4.015	1.00 18.66	С
ATOM	1591	ŏ	MET A		9.990	17.433	3.972	1.00 18.08	0
ATOM	1592	N	HIS A		12.060	18.275	3.622	1.00 17.15	N
ATOM	1593	CA	HIS A		12.594	17.015	3.100	1.00 18.01	С
ATOM	1594	CB	HIS A		14.058	17.168	2.683	1.00 17.04	С
ATOM	1595	CG	HIS A		14.240	17.744	1.317	1.00 16.42	С
ATOM	1596		HIS A		14.997	18.778	0.879	1.00 15.93	С
ATOM	1597		HIS A		13.603	17.236	0.205	1.00 15.81	N
ATOM	1598		HIS A		13.959	17.933	-0.859	1.00 16.01	С
ATOM	1599		HIS A		14.806	18.873	-0.477	1.00 16.64	N
ATOM	1600	C	HIS A		12.502	15.912	4.139	1.00 18.05	С
MOTA	1601	ŏ	HIS A		12.198	14.773	3.814	1.00 18.66	0
ATOM	1602	N	GLU A		12,768	16.272	5.391	1.00 20.56	N
ATOM	1603	CA	GLU A		12.728	15.328	6.499	1.00 22.84	С
ATOM	1604	CB	GLU A		13.481	15.893	7.692	1.00 22.48	C
ATOM	1605	CG	GLU A		13.963	14.825	8.620	1.00 24.12	C
ATOM	1606	CD	GLU A		14.630	15.392	9.846	1.00 29.38	C
ATOM	1607		GLU A		15.395	16.380	9.704	1.00 31.41	0
ATOM	1608		GLU A		14.396	14.837	10.945	1.00 28.96	0
ATOM	1609	C	GLU A		11.292	15.025	6.905	1.00 23.99	C
ATOM	1610	0	GLU A	727	10.976	13.904	7.304	1.00 25.80	0
ATOM	1611	N	VAL A		10.428	16.031	6.824	1.00 23.70	N
ATOM	1612	CA	VAL A	728	9.028	15.827	7.153	1.00 24.40	C
ATOM	1613	CB	VAL A	728	8.234	17.142	7.040	1.00 24.48	C
ATOM	1614		VAL A		6.744	16.875	7.249	1.00 24.28	C
ATOM	1615	CG2	VAL A	728	8.756	18.144	8.070	1.00 22.75	C
ATOM	1616	С	VAL A		8.474	14.804	6.163	1.00 25.55	C 0
ATOM	1617	0	VAL A		7.863	13.811	6.562	1.00 25.65 1.00 25.02	N
ATOM	1618	N	VAL A		8.711	15.046	4.872	1.00 24.40	C
MOTA	1619	CA	VAL A		8.252	14.148	3.816 2.405	1.00 24.45	Ċ
ATOM	1620	CB	VAL A		8.672	14.674		1.00 24.43	Ċ
ATOM	1621		VAL A		8.302	13.664	1.327 2.115	1.00 24.92	č
ATOM	1622		VAL A		7.974	16.004	4.028	1.00 24.66	č
ATOM	1623	C	VAL A		8.791	12.727 11.750	3.881	1.00 25.19	ŏ
MOTA	1624	0	VAL A		8.054 10.069	12.609	4.377	1.00 25.70	N
MOTA	1625	N	GLU A			11.302	4.615		Ĉ
ATOM	1626	CA	GLU A		10.684	11.502	5.127	1.00 30.97	Č
MOTA	1627	CB	GLU A		12.110	10.220	5.202	1.00 39.85	Ċ
MOTA	1628	CG	GLU F		12.924 14.322	10.424	5.784	1.00 44.69	C
ATOM	1629	CD	GLU A		14.767	11.596	5.917	1.00 45.55	0
ATOM	1630		GLU F		14.767	9.397	6.091	1.00 48.01	Ö
ATOM	1631				9.876	10.440	5.622	1.00 26.45	С
ATOM	1632	C	GLU F		9.757	9.218	5.468	1.00 24.63	0
ATOM	1633	0			9.320	11.096	6.637	1.00 23.97	N
ATOM	1634	N	ASN A		8.512	10.450	7.666	1.00 22.40	C
ATOM		·CA	ASN A		8.365	11.389	8.859	1.00 23.25	С
ATOM	1636	CB	ASN A		1 9.618	11.463		\$1.00 26.42	¹ C
ATOM	1637	CG OD1	ASN A		9.931	10.527	10.435	1.00 28.31	. 0
ATOM	1638		ASN A		10.353	12.568	9.576	1.00 25.72	N
MOTA	1639		ASN A		7.120	10.041	7.202	1.00 21.17	C
ATOM	1640	C	ASN A		6.633	8.962	7.542	1.00 19.90	Ō
MOTA	1641	0	ASN A		6.478	10.926	6.445	1.00 21.84	N
MOTA	1642	N.	LEU F		5.128	10.704	5.933	1.00 20.77	C
MOTA	1643	CA			4.594	12.002	5.345	1.00 21.46	C
ATOM	1644	CB	LEU A		4.620		6.333	1.00 22.65	Č
ATOM	1645	CG	LEU F		4.136	14.434	5.632	1.00 20.86	č
ATOM	1646	CDI	LEU P	132	4.130	エユ・コンコ	3.032		-

лчом	1647	CD2	LEU A	732	3.742	12.812	7.546	1.00 19.65	С
ATOM ATOM	1648	C	LEU A		5.060	9.604	4.877	1.00 21.08	С
ATOM	1649	ŏ	LEU A		4.022	8.965	4.704	1.00 19.47	0
ATOM	1650	N	LEU A		6.168	9.388	4.172	1.00 21.05	N
ATOM	1651	CA	LEU A		6.221	8.362	3.137	1.00 22.10	C
ATOM	1652	CB	LEU A		7.391	8.616	2.184	1.00 21.78	С
ATOM	1653	CG	LEU A		7.340	9.922	1.382	1.00 22.39	С
ATOM	1654		LEU A		8.593	10.050	0.522	1.00 23.05	С
	1655	CD2	LEU A		6.091	9.933	0.523	1.00 21.13	С
MOTA	1656	CDZ	LEU A		6.352	6.973	3.728	1.00 22.69	С
ATOM	1657	Ö	LEU A		6.176	5.982	3.030	1.00 23.30	0
ATOM		И	ASN A		6.663	6.903	5.017	1.00 22.52	N
ATOM	1658	CA	ASN A		6.817	5.623	5.696	1.00 24.39	С
ATOM	1659 1660	CB	ASN A		7.716	5.788	6.921	1.00 22.11	С
ATOM	1661	CG	ASN A		9.188	5.901	6.549	1.00 24.38	С
ATOM	1662		ASN A		9.979	6.497	7.284	1.00 25.50	0
ATOM	1663	ND2			9.564	5.323	5.408	1.00 21.41	N
MOTA	1664	C	ASN A		5.474	5.037	6.121	1.00 26.57	C
MOTA MOTA	1665	ŏ	ASN A		5.411	3.922	6.653	1.00 26.02	0
ATOM	1666	N	TYR A		4.399	5.784	5.887	1.00 25.48	N
ATOM	1667	CA	TYR A		3.089	5.302	6.273	1.00 26.47	C
ATOM	1668	CB	TYR A		2.208	6.473	6.727	1.00 28.08	C
ATOM	1669	CG	TYR A		2.728	7.110	7.998	1.00 30.37	C
ATOM	1670	CD1	TYR A	735	3.453	8.303	7.965	1.00 30.38	C
ATOM	1671	CE1	TYR A		4.020	8.831	9.121	1.00 31.54	C
ATOM	1672	CD2	TYR A		2.579	6.466	9.230	1.00 29.34	C
ATOM	1673	CE2	TYR A		3.145	6.986	10.387	1.00 30.80	C
MOTA	1674	CZ	TYR A		3.866	8.164	10.327	1.00 32.07	C
ATOM	1675	OH	TYR A		4.463	8.659	11.469	1.00 35.32	0
MOTA	1676	С	TYR A	735	2.414	4.485	5.183	1.00 27.80	C
ATOM	1677	0	TYR A	735	2.763	4.575	3.996	1.00 26.56	0
ATOM	1678	N	CYS A		1.450	3.673	5.609	1.00 27.77	N
ATOM	1679	CA	CYS A		0.730	2.788	4.712	1.00 28.48	C C
ATOM	1680	CB	CYS A	736	-0.232	1.895	5.495	1.00 29.54	s
ATOM	1681	SG	CYS A	736	-1.077	0.675	4.454	1.00 33.33	C
ATOM	1682	С	CYS A		-0.044	3.529	3.654	1.00 28.99 1.00 30.75	
ATOM	1683	0	CYS A		-0.900	4.361	3.958	1.00 30.75	Ŋ
ATOM	1684	N	PHE A		0.257	3.209	2.402	1.00 27.04	C
MOTA	1685	CA	PHE A		-0.424	3.841	1.288	1.00 28.07	č
MOTA	1686	CB	PHE A		0.461	3.820	0.049	1.00 23.31	Č
ATOM	1687	CG	PHE A		-0.276	4.156	-1.215 -1.360	1.00 31.31	Č
ATOM	1688	CD1	PHE A		-0.915	5.385 3.236	-2.258	1.00 32.43	č
MOTA	1689	CD2	PHE A	. 737	-0.347	5.697	-2.530	1.00 33.33	Č
ATOM	1690		PHE A		-1.615	3.540	-3.436	1.00 33.88	Ċ
ATOM	1691		PHE A		-1.047		-3.570	1.00 32.10	Ċ
ATOM	1692	CZ	PHE A		-1.679	4.772 3.140	1.002	1.00 27.87	С
ATOM	1693	C	PHE A		-1.747 -2.763	3.799	0.771	1.00 27.51	0
ATOM	1694	0	PHE A		-1.715	1.811	1.004	1.00 26.66	N
ATOM	1695	N	GLN A		-2.911	1.031	0.748	1.00 27.90	С
ATOM	1696	CA	GLN A		-3.191	0.925	-0.767	1.00 28.34	С
ATOM	1697	CB			-2,168	0.121	-1.538	1.00 29.15	С
ATOM	1698	CG	GLN A		-2.483	-0.022	-3.021	1.00 28.82	C
ATOM	1699	CD	GLN A		-1.592	-0.298	-3.822	1.00 32.21	0
ATOM	1700				-3.745	0.155	-3.389	1.00 28.71	N
ATOM	1701	NE2 C	GLN A		-2.841	-0.391	1.332	1.00 28.35	С
ATOM	1702		GLN A		-1 763	~-0.957	1.569	1.00 30.41	0
ATOM	1703		THR A		-4.029	-0.932	1.530	1.00 27.32	Ν.
MOTA	1704	N CA	THR A		-4.261	-2.234	2.048	1.00 27.03	C
ATOM	1705	CB	THR A		-5.652	-2.203	2.720	1.00 26.21	С
ATOM	1706	OG1	THR A		-5.504	-2.169	4.151	1.00 28.10	0
ATOM	1707	CG2	THR A		-6.482	-3.371	2.267	1.00 25.04	С
ATOM	1708	CGZ	THR A		-4.146	-3.290	0.935	1.00 28.52	С
MOTA	1709	o	THR A		-4.088	-2.931	-0.236	1.00 27.95	0
ATOM	1710 1711	N	PHE A		-4.056	-4.567-	1.306	1.00 28.47	N
ATOM -	1712	CA	PHE A		-4.000	-5.636	0.333	1.00 28.92	С
ATOM	1112	On	A		•••				

			_
		-3.730 -6.986 1.002 1.00 28.60	C
ATOM	1713 CB PHE A 740	7 252 1 061 1.00 28.35	C
ATOM	1714 CG PHE A 740	-2.273 C 770 2 005 1.00 27.97	C
ATOM	1715 CD1 PHE A 740	1.445 0.334 0.131 1.00 28.56	С
	1716 CD2 PHE A 740	-1.724 -0.254 2 027 1:00 26.87	С
ATOM	1717 CE1 PHE A 740	-0.083 -7.007 0.143 1.00 25.73	C
ATOM		-0.359 -0.350 1 006 1 00 25.29	С
MOTA	7 7 10	[].464 -1.540 100 20 22	С
MOTA	7 740	-5.351 -3.000 -1.00 20 56	0
MOTA	74D	-5.400 -5.943 -1.589 1.00 20.30	N
MOTA			С
MOTA	7.1	-7 772 -5.475 -0.303 1.00 32.1-	C
MOTA	741	-9 954 -5.208 U.742 1.00 20 20	Č
MOTA	n 741	10 269 -5.734 0.433 1.00 50	Č
ATOM	1725 CG LEU A 741	11 272 -4.961 1.310 1.00 3.16	Č
ATOM	1726 CD1 LEU A 741	-10 590 -5.5/5 -1.013 1.00 24 12	č
ATOM	1727 CD2 LEU A 741	7 830 -4.381 -1.385 1.00 34.12	ŏ
ATOM	1728 C LEU A 741	2 4 631 -2 495 1.00 34.37	N
ATOM	1729 O LEU A 741	7 330 -3.182 -1.060 1.00 36.41	C
ATOM	1730 N ASP A 742	0.050 -1.998 1.00 39.03	C
ATOM	1731 CA ASP A 742	0 700 -1 367 1.00 41.00	
ATOM	1732 CB ASP A 742	0 214 -0 130 1.00 44.91	Ċ
ATOM	1733 CG ASP A 742	0 227 -0 137 1.00 44.90	0
ATOM	1734 OD1 ASP A 742	0.703 0.844 1.00 44.33	0
ATOM	1735 OD2 ASP A 742	202 -3 233 1.00 39.68	C
MOTA	1736 C ASP A 742	7 000 -4 341 1.00 39.59	0
ATOM	1737 O ASP A 742	70.001 7.00	N
MOTA	1738 N LYS A 743	2 460 -4 167 1.00 41.01	C
ATOM	1739 CA LYS A 743	4 042 -3 671 1.00 39.01	C
ATOM	1740 CB LYS A 743	-3.216 4.300 -4.789 1.00 38.60	C
ATOM	1741 CG LYS A 743	5 628 1.00 38.68	C
ATOM	1742 CD LYS A 743	-1.003 -6 722 1.00 39.76	C
ATOM	1743 CE LYS A 743	-0.033 -7 611 1.00 39.51	N
	1744 NZ LYS A 743	-0.575 -2.570 -5 106 1.00 41.84	C
ATOM ATOM	1745 C LYS A 743	-5.201 -4.370 -6.311 1.00 42.58	0
	1746 O LYS A 743	-5.292 -4.220 -4.547 1.00 43.57	Ŋ
ATOM ATOM	1747 N THR A 744	-5.658 -5.368 1.00 45.64	C
ATOM	1748 CA THR A 744	-6.293 -0.053 -4 392 1.00 44.98	C
ATOM	1749 CB THR A 744	-6.836 -7.730 -3.675 1.00 44.07	0
ATOM	1750 OG1 THR A 744	-5.747 -6.549 -5.206 1.00 45.66	C
ATOM	1751 CG2 THR A 744	-7.546 -6.005 -6.212 1.00 47.40	C
ATOM	1752 C THR A 744	7.75 -7 280 1.00 47.75	0
ATOM	1753 O THR A 744	-7.654 -0.755 -5 773 ±1.00 49.80	N
ATOM	1754 N MET A 745	6559 1.00 52.76	C
ATOM	1755 CA MET A 745	5 649 1.00 54.50	C
ATOM	1756 CB MET A 745	-10.380 4.133 4.647 1.00 59.16	C
ATOM	1757 CG MET A 745	-10.866 -3.166 -3.844 1.00 66.09	S.
ATOM	1758 SD MET A /45	-12.393 4.015 -3 284 1.00 64.45	C
ATOM	1759 CE MET A 745	2 476 -7 449 1.00 53.67	С
MOTA	1760 C MET A 745	-8.003 3.105 -8 381 1.00 55.39	0
ATOM	1761 O MET A 745	7 167 1.00 53.46	N
ATOM	1762 N SER A 746	-7.029 2.003 -7 956 1.00 54.81	C
ATOM	1763 CA SER A 746	-7.107 1.00 54.57	C
ATOM	1764 CB SER A 746	-6.260 0.074	0
ATOM	1765 OG SER A 746	-7.059 0.250 -9 151 1.00 54.77	C
ATOM	1766 C SER A 746	-6.267 -2.232 -9.827 1.00 55.13	. 0
MOTA	1767 O SER A 746	2.552 -9.427 1.00 54.44	N
ATOM	1768 N ILE A 747	-6.233 3.034 -10 537 10 00 53.35	С
ATOM	1769 CA ILE A 747	-5.420 1.00 1.00 51.95	C
ATOM	1770 CB ILE A 747	-3.916 3.012 -9 307 1.00 50.58	C
	1771 CG2 ILE A 747	-3.430 2.036 -11 501 1.00 51.96	C
ATOM ATOM	1772 CG1 ILE A 747	-3.097 3.050 -11 276 1.00 53.37	C
	1773 CD1 ILE A 747	-1.039 5.100 -10 859 1.00 52.81	C
ATOM ATOM	1774 C ILE A 747	-5.864 -5.302 -9.969 1.00 53.50	0
	1775 O ILE A 747	-3.904 5.35 -12 142 1.00 51.77	N
ATOM	1776 N GLU A 748	-5.567 3.033 -12 614 1.00 51.90	C
MOTA .	1777 CA GLU A 748	-5.//6 / 201 1 1 1 1 00 54 94	С
· ATOM	4770 CB CIJI A 748	-5.972 -7.217 -14.131 1.00 31.71	
MOTA			

л шом	1779	CG GLU A 748	-4.810 -6.566 -14.860 1.00 61.17	C
ATOM ATOM	1780	CD GLU A 748	-4.939 -6.627 -16.363 1.00 64.72	C
ATOM	1781	OE1 GLU A 748	-6.006 -6.226 -16.882 1.00 66.54	0
ATOM	1782	OE2 GLU A 748	-3.966 -7.066 -17.022 1.00 66.74	0
ATOM	1783	C GLU A 748	-4.527 -8.004 -12.256 1.00 49.12	C
ATOM	1784	O GLU A 748	-3.416 -7.465 -12.242 1.00 49.04	0
ATOM	1785	N PHE A 749	-4.708 -9.291 -11.991 1.00 45.70	N
ATOM	1786	CA PHE A 749	-3.601 -10.153 -11.609 1.00 43.81	C
	1787	CB PHE A 749	-4.093 -11.596 -11.468 1.00 41.9 <u>5</u>	C
ATOM	1788	CG PHE A 749	-3.156 -12.481 -10.698 1.00 39.45	C
ATOM	1789	CD1 PHE A 749	-2.822 -12.181 -9.385 1.00 39.11	С
MOTA	1790	CD2 PHE A 749	-2.613 -13.615 -11.282 1.00 39.11	C
ATOM	1791	CE1 PHE A 749	-1 960 -13 000 -8.666 1.00 39.67	С
ATOM	1792	CE2 PHE A 749	-1 752 -14.441 -10.572 1.00 39.69	C
ATOM	1793	CZ PHE A 749	-1 425 -14 132 -9.260 1.00 39.69	С
ATOM	1794	C PHE A 749	-2.367 -10.121 -12.522 1.00 42.67	C
ATOM	1795	O PHE A 749	-1 237 -10 151 -12.036 1.00 42.30	0
ATOM	1796	N PRO A 750	-2 562 -10.072 -13.850 1.00 42.69	Ŋ
ATOM ATOM	1797	CD PRO A 750	-3.821 -10.228 -14.599 1.00 42.04	C
ATOM	1798	CA PRO A 750	-1.413 - 10.043 - 14.769 1.00 42.15	Ç
ATOM	1799	CB PRO A 750	-2.077 -9.999 -16.143 1.00 42.26	C
ATOM	1800	CG PRO A 750	-3.336 -10.780 -15.921 1.00 41.75	C
ATOM	1801	C PRO A 750	-0.445 -8.874 -14.545 1.00 42.03	C
ATOM	1802	O PRO A 750	0.777 -9.065 -14.547 1.00 41.01	0
ATOM	1803	N GLU A 751	-0.992 -7.672 -14.359 1.00 42.10	N
ATOM	1804	CA GLU A 751	-0.181 -6.479 -14.122 1.00 41.80	C
ATOM	1805	CB GLU A 751	-1.051 -5.237 -14.004 1.00 45.60	C
ATOM	1806	CG GLU A 751	-1.863 -4.856 -15.212 1.00 50.76	C
ATOM	1807	CD GLU A 751	-2.606 -3.547 -14.971 1.00 53.59	C
ATOM	1808	OE1 GLU A 751	-1.933 -2.499 -14.829 1.00 55.27	0
ATOM	1809	OE2 GLU A 751	-3.856 -3.567 -14.904 1.00 54.76	C
ATOM	1810	C GLU A 751	0.577 -6.612 -12.812 1.00 40.35 1.742 -6.235 -12.710 1.00 39.57	Ö
MOTA	1811	O GLU A 751		N
ATOM	1812	N MET A 752		C
ATOM	1813	CA MET A 752	0.302	Č
ATOM	1814	CB MET A 752	0.333	Č
ATOM	1815	CG MET A 752	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	S
ATOM	1816	SD MET A 752	1.330	Č
ATOM	1817	CE MET A 752		č
MOTA	1818	C MET A 752	1.001	ŏ
MOTA	1819	O MET A 752	2.303 0.201	N
MOTA	1820	N LEU A 753	1.425 -9.320 -11.440 1.00 33.01 2.422 -10.373 -11.608 1.00 32.98	С
ATOM	1821	CA LEU A 753	1.899 -11.465 -12.541 1.00 31.89	С
ATOM	1822	CB LEU A 753	2.193 -12.888 -12.076 1.00 31.73	С
ATOM	1823	CG LEU A 753	1.618 -13.097 -10.676 1.00 30.99	С
ATOM	1824	CD1 LEU A 753	1.595 -13.877 -13.065 1.00 29.81	С
MOTA	1825	CD2 LEU A 753	3.678 -9.756 -12.201 1.00 32.62	С
MOTA	1826	C LEU A 753	4.785 -10.018 -11.741 1.00 33.11	0
MOTA	1827	O LEU A 753	3.493 -8.933 -13.228 1.00 32.32	N
MOTA	1828	N ALA A 754	4.605 -8.254 -13.874 1.00 30.99	С
ATOM	1829	CA ALA A 754 CB ALA A 754	4 103 -7.475 -15.079 1.00 29.43	С
MOTA	1830		5.236 -7.308 -12.852 1.00 30.53	С
MOTA	1831		6.452 -7.145 -12.803 1.00 30.15	0
MOTA	1832		4 392 -6.691 -12.034 1.00 30.94	N
MOTA	1833	'N GLU A 755 CA GLU A 755	4.849 -5.767 -11.001 1.00 33.21	С
MOTA	1834		3.656 -5.166 -10.273%**1.00 33.78	С
MOTA	1835		3.448 - 3.690 - 10.523 1.00 34.33	С
MOTA	1836		2.067 -3.233 -10.090 1.00 36.38	С
MOTA	1837	CD GLU A 755 OE1 GLU A 755	1.619 -3.636 -8.989 1.00 34.46	0
ATOM	1838	OE2 GLU A 755	1.437 -2.468 -10.854 1.00 37.25	0
MOTA	1839		5.733 -6.475 -9.991 1.00 35.08	С
MOTA	1840		6 781 -5.964 -9.598 1.00 37.12	0
MOTA	1841		5 298 -7 654 -9 568 1.00 36.05	N
ATOM	1842	N ILE A 756 CA ILE A 756	6.047: -8.447 -8.609 1.00 37.46	. С
MOTA	1843 1844	CB ILE A 756	5.212 -9.694 -8.185 1.00 35.45	С
MOTA	T044	CD 11111 17 70		

5.

				25.6	6 066	-10.679	-7.403	1.00 33	.71	C
ATOM	1845	CG2	ILE A	756	4.009		-7.353	1.00 33		С
ATOM	1846		ILE A			-10.264	-7,139	1.00 31		С
ATOM	1847		ILE A		7.406		-9.192		.91	С
MOTA	1848	C	ILE A			_	-8.584		. 68	0
ATOM	1849	0	ILE A		8.449	-0.000	-10.375	1.00 41		N
ATOM	1850	N	ILE A		7.390	-9.461	11 03/	1.00 44		C
MOTA	1851	CA	ILE A		8.619	-9.896	-11.034	1.00 43		Ċ
ATOM	1852	CB	ILE A		8.314	-10.434	12.430	1.00 43		Č
ATOM	1853	CG2	ILE A	757	9.610	-10.724	-13.190	1.00 43		Č
ATOM	1854	CG1	ILE A		7.456	-11.692	-12.300	1.00 42		č
ATOM	1855	CD1	ILE A			-12.304	-13.010	1.00 46	. 93	č
ATOM	1856	С	ILE A		9.615	-8.749	-11.133	1.00 46	. 46	ő
ATOM	1857	0	ILE A		10.809	-8.924	-10.902	1.00 50		N
MOTA	1858	N	THR A		9.109	-7.574	-11.487	1.00 53	7.20	Ċ
ATOM	1859	CA	THR A		9.932	-6.382	-11.592	1.00 54	1 10	Č
ATOM	1860	CB	THR A		9.231	-5.311	-12.457	1.00 54	70	ŏ
ATOM	1861	OG1	THR A	758	9.055		-13.787	1.00 53	1 01	Č
MOTA	1862	CG2	THR A	758	10.052	-4.018	-12.502	1.00 54		C
ATOM	1863	C	THR A		10.102		-10.166	1.00 56		Ö
ATOM	1864	0	THR A	758	9.394		-9.737	1.00 57		N
ATOM	1865	N	ASN A	759	11.028		-9.434	1.00 59		C
ATOM	1866	CA	ASN A	759	11.309		-8.039	1.00 60		c
ATOM	1867	CB	ASN A	759	12.815		-7.779		L.23	C
ATOM	1868	CG	ASN A		13,334		-7.714		2.21	
ATOM	1869		ASN A		14.543		-7.755	1.00 62	2.10	0
ATOM	1870		ASN A		12.421	-8.580	-7.604	1.00 6		N
ATOM	1871	C	ASN A		10.773	-4.771	-7.625	1.00 60		C
ATOM	1872	ō	ASN A	759	9.662		-7.103	1.00 60		0
ATOM	1873	N	ASN A	768	17.782	7.993		1.00 42	2.10	N
ATOM	1874	CA	ASN A		17.798	8.350	-8.114	1.00 43	2.43	C
ATOM	1875	CB	ASN A		19.169	8.043	-7.520	1.00 4		C
ATOM	1876	CG	ASN A		19.082	7.501		1.00 4	6.42	C
ATOM	1877		ASN A		20.073	7.483	-5.384	1.00 4		O N
ATOM	1878	ND2	ASN A	768	17.894	7.040		1.00 4		N
ATOM	1879	C	ASN A	768	17.478	9.841	-7.945	1.00 4		C
ATOM	1880	ō	ASN A		17.705			1.00 4		0
ATOM	1881	N	ILE A	769	16.971		-6.769	1.00 3	7.53	И С
ATOM	1882	CA	ILE A		16.590			1.00 3	7.50	C
ATOM	1883	CB	ILE A	769	15.302			1.00 3	C 13	c
ATOM	1884	CG2	ILE A	769	14.766			1.00 3	6 03	c
ATOM	1885		ILE A		14.237			1:00 3	6.03 6.20	c
ATOM	1886	CD1	ILE A	769	13.082			1.00 3	7 17	č
ATOM	1887	С	ILE A	769	17.650			1.00 3	/ • I /	Ö
ATOM	1888	0	ILE A		18.352			1.00 3	6.IU 5.61	N
ATOM	1889	N	LYS A	770	17.748			1.00 3	3 69	C
ATOM	1890	CA	LYS A		18.685					č
ATOM	1891	CB	LYS A	770	19.528			1.00 3 1.00 3	7 32	č
ATOM	1892	CG	LYS A		20.472			1.00 3	0.79	č
ATOM	1893	CD	LYS A	770	21.177			1.00 4	4 20	č
ATOM	1894	CE	LYS A	770	22.085			1.00 4	4.20	N
MOTA	1895	NZ	LYS A	770	22.775			1.00 3	1 29	C
ATOM	1896	C	LYS A	770	17.892			1.00 2	0 17	ő
ATOM	1897	0	LYS A		17.129			1.00 2	J. I.	· 1/
ATOM	1898	N	LYS A		18.070			1.00 3	0 04	C
ATOM	1899	CA	LYS A	771	17.371			1.00 3	1 0/	Č
MOTA	1900	CB	LYS A	771	17.429			1.00 3	I.J4	c
ATOM :	1901	CG	LYS A		17.188		-0.840	1.00 3 1.00 3	6 76	C
ATOM	1902	CD.	LYS A	771	15.724			T.00 3	7 06	C
ATOM	1903	CE	LYS A	771	15.471			1.00 3	7.30 D 47	N
ATOM	1904	NZ	LYS A		15.670			1.00 3	J.41	C
ATOM	1905	C	LYS A		18.062			1.00 3	0.30	
ATOM	1906	ō	LYS A	771	19.175			1.00 3	2.14	0
ATOM	1907	N	LEU A		17.425			1.00 2	8.13	N
ATOM	1908	CA	LEU A		18.045			1.00 2	7.81	C
ATOM "	1909	CB	LEU A		17.360			1.00 2		C
ATOM	1910	CG	LEU A		17.483	3 20.570	-5.775	1.00 2	7.41	С
-11011			· · · · · · · · ·							

								c 700	1.00 26.45	С
ATOM	1911	CD1	LEU A	772		16.690	21.444	-6.729		
ATOM	1912		LEU A			18.947	20.523	-6.193	1.00 26.36	
			LEU A			17.954	20.919	-1.898	1.00 28.16	
MOTA	1913	С					20.917	-1.270	1.00 28.07	0
MOTA	1914	0	LEU A	112		16.887			1.00 27.54	
ATOM	1915	N	LEU A	773		19.084	21.457	-1.431		
ATOM	1916	CA	LEU A	773		19.185	22.100	-0.118	1.00 27.61	
	1917	СВ	LEU A			20.014	21.244	0.832	1.00 22.94	С
MOTA							19.829	1.232	1.00 23.69	С
ATOM	1918	CG	LEU A			19.632			1.00 18.12	
ATOM	1919	CD1	LEU A			20.844	19.157	1.862		
ATOM	1920	CD2	LEU A	773		18.456	19.862	2.199	1.00 22.12	
		C	LEU A	773		19.864	23.470	-0.162	1.00 29.74	С
ATOM	1921					20.782	23.693	-0.951	1.00 29.86	0
MOTA	1922	0	LEU A					0.717	1.00 30.73	
ATOM	1923	N	PHE A			19.426	24.371		1.00 29.86	
ATOM	1924	CA	PHE A	774		20.028	25.694	0.819		
	1925	CB	PHE A			19.001	26.739	1.278	1.00 28.70	C
ATOM			PHE A			17.897	27.001	0.284	1.00 27.54	C.
MOTA	1926	CG				16.740	26.217	0.277	1.00 26.23	С
MOTA	1927	CD1						-0.640	1.00 26.58	
MOTA	1928	CD2	PHE A	774		18.006	28.041		1.00 24.45	
ATOM	1929	CE1	PHE A	774		15.707	26.460	-0.631	1.00 24.45	Č
	1930	CE2		774		16.971	28.298	-1.560	1.00 26.65	С
ATOM			PHE A			15.820	27.502	-1.552	1.00 25.59	C
MOTA	1931	CZ				21.162	25.630	1.846	1.00 30.75	C
MOTA	1932	С	PHE A						1.00 31.84	
ATOM	1933	0	PHE A	774		22.162	26.330	1.713	1.00 31.01	N
ATOM	1934	N	HIS A	775		20.999	24.788	2.867	1.00 32.46	
	1935	CA	HIS A			21.996	24.638	3.927	1.00 34.79	
ATOM .			HIS A			21.427	25.120	5.257	1.00 33.07	C
MOTA	1936	CB				20.709	26.428	5.167	1.00 33.70	C
ATOM	1937	CG	HIS A					5.215	1.00 33.95	
ATOM	1938	CD2	HIS A	775		19.388	26.724		1.00 34.26	
ATOM	1939	ND1	HIS A	775		21.362	27.624	4.966		
ATOM	1940		HIS A			20.474	28.601	4.891	1.00 35.29	C
		NE2		775		19.269	28.081	5.037	1.00 34.15	N N
ATOM	1941					22.417	23.185	4.080	1.00 37.89	C
MOTA	1942	C	HIS A					4.147	1.00 40.08	
ATOM	1943	0	HIS A			21.577	22.293		1.00 42.42	
ATOM	1944	N	GLN A	776		23.719	22.944	4.159		
ATOM	1945	CA	GLN A	776		24.227	21.581	4.310	1.00 45.17	
	1946	CB	GLN A			25.664	21.501	3.791	1.00 46.91	
MOTA			GLN A			25.998	22.538	2.720	1.00 49.96	C
MOTA	1947	CG					22.582	1.595	1.00 50.90	C
MOTA	1948	CD	GLN A			24.979		0.908	1.00 51.71	
MOTA	1949	OE1				24.747	21.583		1.00 51.49	
MOTA	1950	NE2	GLN A	776		24.366	23.747	1.401	1.00 31.43	
ATOM	1951	C	GLN A			24.187	21.145	5.778	1.00 45.57	
	1952	Q:	GLN A			24.275	21.978	6.690	1.00 45.48	
ATOM						-4.958	16.449	3.385	1.00 27.18	C
ATOM	1953	C1	486 A				17.579	3.147	1.00 28.10	
ATOM	1954	C2	486 A			-3.921			1.00 27.60	
ATOM	1955	C3	486 A	800		-2.450	17.212	3.275		
ATOM	1956	C4	486 A	800		-1.994	15.955	3.393	1.00 26.39	_
	1957	C5	486 A			-2.905	14.788	3.360	1.00 26.71	. С
MOTA			486 A	900		-4.454	15.014	3.103	1.00 26.77	C
MOTA	1958	C6					15.812	3.567	1.00 25.90	C
ATOM	1959	C7	486 A			-0.433			1.00 27.23	
ATOM	1960	C8	486 A			-0.189	14.649	4.483	1 00 27.25	
ATOM	1961	C9	486 A	800		-0.833	13.349	3.908	1.00 25.77	
	1962		486 A			-2.410	13.501	3.556	1.00 25.96	c C
ATOM		011	486 A	900		-0.571	12.327	5.059	1.00 25.42	. C
ATOM	1963					-1.124	10.917	4.855	1.00 27.24	C
ATOM	1964		486 A						1.00 26.46	
ATOM	1965	C13	486 A	800		-2.720	11.198	4.703		
MOTA	1966	C14	486 A	800		-3.256	12.075	3.527	1.00 25.78	
		C15	()486 A	800	1.2	0.907	12.024	5.562	1.00 25.35	
ATOM	1967	01.0	10¢ x	800		0.785	10.627		1.00 25.11	L C
MOTA	1968	CTP	486 A	000			10.124	6.183	1.00 26.20	
ATOM	1969		486 A			-0.701			1.00 28.33	
MOTA	1970	03	486 A			-0.673	8.694	6.061		
ATOM	1971		486 A			-3.160	11.380	2.078	1.00 27.13	
		C10	486 A	800		-0.508	10.116	3.610	1.00 26.0	
ATOM	1972	CIS	40¢ 7	900		-2.424	12.015	0.979	1.00 24.19	S C
MOTA	1973	C22	486 A	500				-0.327	1.00 23.0	
ATOM .	1974	C23	486 A	800		-2.301	11.476		1.00 21.1	
ATOM	1975	C24	486 A	800		-2.912	10.208	-0.686	1 00 24 2	
ATOM	1976	C25	486 A	800		-3.668	9.523	0.414	1.00 24.2	, .
UTOU	2010									

ATOM ATOM ATOM	1977 1978 1979	N27	486 A 800 486 A 800 486 A 800 486 A 800	-3.784 -2.840 -2.092 -4.180	10.100 9.596 10.334 9.302	1.744 -2.012 -3.057 -2.551	1.00 25.14 1.00 19.86 1.00 20.73 1.00 22.81	C N C C
ATOM ATOM	1980 1981		486 A 800	-4.290	18.735	2.915	1.00 32.03	0
ATOM	1982		486 A 800	-2.243	10.906	8.320	1.00 23.29	C
ATOM	1983		486 A 800	-1.498	10.490	7.421	1.00 25.04	С
ATOM	1984		486 A 800	-3.042	11.470	9.451	1.00 19.34	С
ATOM	1985	001	HXD A 901	-6.962	21.669	-1.158	1.00 40.34	0
ATOM	1986	C02	HXD A 901	-6.160	21.132	-2.215	1.00 37.10	C
ATOM	1987	C03	HXD A 901	-4.675	21.201	-1.830	1.00 35.54	C
ATOM	1988		HXD A 901	-3.977	22.305	-2.609	1.00 33.89	C
ATOM	1989		HXD A 901	-2.492	22.415	-2.281	1.00 29.78	C
MOTA	1990		HXD A 901	-1.703	22.581	-3.573	1.00 28.47	C
ATOM	1991		HXD A 901	-0.207	22.706	-3.342	1.00 29.00 1.00 26.97	Ö
MOTA	1992		HXD A 901	0.234	23.950	-3.865	1.00 26.97	Ö
ATOM	1993		HXD A 902	5.824	13.089	-3.330 -3.324	1.00 34.63	C
ATOM	1994		HXD A 902	6.518	11.833 11.971	-2.525	1.00 38.20	č
ATOM	1995		HXD A 902	7.813 9.066	11.789	-3.388	1.00 40.00	Č
ATOM	1996		HXD A 902 HXD A 902	10.361	11.938	-2.554	1.00 41.48	Ċ
MOTA	1997 1998		HXD A 902	11.300	12.999	-3.154	1.00 43.04	Ċ
ATOM ATOM	1999		HXD A 902	12.590	13.168	-2.355	1.00 42.99	С
ATOM	2000		HXD A 902	12,681	14.514	-1.894	1.00 44.45	0
ATOM	2001		HXD A 903	8.652	15.370	12.368	1.00 23.73	0
ATOM	2002		HXD A 903	8.980	16.106	11.195	1.00 26.20	С
ATOM	2003		HXD A 903	10.498	16.203	11.071	1.00 26.89	С
ATOM	2004		HXD A 903	11.039	17.441	11.767	1.00 31.18	C
ATOM	2005	C05	HXD A 903	12.557	17.529	11.636	1.00 35.27	C
ATOM	2006	C06	HXD A 903	12.982	18.908	11.151	1.00 38.80	C
ATOM	2007		HXD A 903	14.498	19.023	11.008	1.00 40.67	C 0
MOTA	2008		HXD A 903	14.960	20.059	11.858	1.00 41.11 1.00 15.69	0
ATOM	2009	0	HOH A1001	0.264	29.631	-4.946 18.053	1.00 13.03	Ö
ATOM	2010	0	HOH A1003	4.922 10.793	9.264 17.474	-3.662	1.00 22.83	ő
ATOM	2011	0	HOH A1004 HOH A1006	-8.926	23.876	6.991	1.00 4.24	ŏ
ATOM ATOM	2012 2013	0	HOH A1007	21.555	33.956	4.100	1.00 13.73	Ō
ATOM	2013	ŏ	HOH A1009	6.960	14.859	-1.622	1.00 29.61	0
ATOM	2015	ŏ	HOH A1010	10.525	18.968	0.100	1.00 20.63	0
ATOM	2016	ŏ	HOH A1011	12.358	13.474	1.582	1.00 34.18	0
ATOM	2017	Ō	HOH A1012	-2.987	20.680	1.791	1.00 15.66	0
ATOM	2018	0	HOH A1013	2.882	21.720		1.00 25.04	0
ATOM	2019	0	HOH A1014	17.655	36.684	-2.546	1.00 20.06	0
ATOM	2020	0	HOH A1015	2.631	28.765	-3.964	1.00 24.63	0
ATOM	2021	0	HOH A1016	5.752	39.569	2.152	1.00 27.47	0
ATOM	2022	0	нон А1017	11.880	20.909		1.00 20.93	0
ATOM	2023	0	HOH A1018	-2.943	-1.298	-8.192	1.00 32.22	Ö
ATOM	2024	0	HOH A1019	-2.182	6.572	4.843 -6.811	1.00 45.22 1.00 12.21	0
ATOM	2025	0	HOH A1020	10.994 7.455	18.677 38.431	-3.850	1.00 12.21	o
ATOM	2026 1	0	HOH A1021 HOH A1021	7.433	J0.4JI	5.050	1.00 25.00	Ū
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CLAIMS

- 1. A crystal comprising at least 150 amino acid residues of the GR ligand binding domain.
- 2. A crystal according to claim 1 comprising the amino acid sequence from Leu-532 to Leu-732 of a human GR shown in Figure 7 or an amino acid sequence having at least 95% identity with the sequence and which encodes for a GR ligand binding domain.
- 3. A crystal according to claim 1 or claim 2 comprising an amino acid sequence from Leu-35 to Leu-235 of Seq ID No. 1.
- 4. A crystal according to any preceding claim comprising an amino acid sequence from Leu-14 to Leu-214 of Seq. ID No. 2.
- A crystal according to any preceding claim comprising an amino acid sequence from Leu-35 to Leu-235 of Seq ID No. 3.
- 6. A crystal according to any one of claims 1 to 5 comprising the entire GR ligand binding domain.
- A crystal according to any preceding claim produced using a sequence including helix 9 of GR.
- 8. A crystal according to any one of claims 1 to 7 usable in X-ray crystallography.
- A crystal according to any one of claims 1 to 7 including a ligand bound to GR or a portion thereof.

10. A crystal according to claim 9, wherein the ligand is a GR antagonist.

- 11. A crystal according to claim 8 in which the ligand is RU-486 [(11β,17β)-11-[4-(dimethylamino)phenyl]-17-hydroxy-17-(1-propynyl)-estra-4,9-dien-3-one, CAS registry number 84371-65-3], cortisol, dexamethasone or any other ligand that binds with high affinity (<100 nM to the internal GR binding cavity).
- 12. A crystal of GR LDB according to any preceding claim belonging to the space group $P2_12_12_1$ and having the unit cell dimensions a = 67.33 Å, b = 87.4 Å, c = 93.11 Å, $\alpha = \beta = \gamma = 90^{\circ}$.
- 13. A crystal of GR LDB according to any preceding claim belonging to the space group P6₅ and having the unit cell dimensions a=b=132.1, c=53. $\alpha = \beta = 90$, $\gamma = 120^{\circ}$.
- 14. A crystal of GR LDB according to any preceding claim belonging to the space group P2₁2₁2 and having the unit cell dimensions a= 74.5, b= 109.7, c= 39.1. $\alpha = \beta = \gamma = 90^{\circ}$.
- 15. A crystal of GR-LBD according to any one of claims 1 to 11 belonging to the space group P3; and having cell dimensions a=b=127.4, c=91.8, α=β=90°, γ=120°.
- A crystal according to any of claims 1 to 15 having a resolution determined by
 X-ray crystallography of less than 3.6 Å.
- 17. A crystal according to claim 16 having a resolution determined by X-ray crystallography of less than 2.9 Å.
- 18. A machine-readable data storage medium, comprising a data storage material encoded with machine readable data which, when using a machine

programmed with instructions for using said data, is capable of displaying a graphical three-dimensional representation of a crystal structure according to any one of claims 1 to 17 or a homologue of said crystal structure.

- 19. A method for designing a potential glucocorticoid receptor ligand for the treatment of diseases modulated by the glucocorticoid, the method comprising the steps of:
 - c) employing computational means to perform a fitting operation between the chemical entity and a binding site of GR receptors identified from a crystal according to any one of claims 1-17, or a 3D representation obtained from a machine-readable storage medium according to claim 18.
 - analyzing the results of the fitting operation to predict the association between the potential chemical entity and the binding site;
 - synthesizing the potential glucocorticoid receptor ligand based on the crystal structure of the glucocorticoid receptor;
 - e) assaying the glucocorticoid receptor ligand for glucocorticoid receptor binding, response in a glucocorticoid reporter cell line, measuring in vivo effects including but not limited to hepatic glucose production, marker proteins such as tyrosine amino transferase, corticotropin-releasing hormone, or antiinflammatory response which indicates that the compound may be used for treatment of diseases modulated by the glucocorticoid receptor.
- 20. A method according to claim 19, wherein the binding pocket resides in the ligand binding domain have been identified.
- 21. A method according to claim 19, wherein said potential glucocorticoid receptor ligand is a glucocorticoid receptor antagonist.

22. A method according to claim 19, wherein said potential glucocorticoid receptor ligand is an agonist.

- 23. A method of designing a ligand which will bind to GR comprising comparing the shape of a compound with the shape of the ligand binding domain of GR as obtained from a crystal according to any one of claims 1 to 17, and determining which amino acid or amino acids of the ligand binding domain interact with said compound.
- 24. A ligand identified by a method according to any one of claims 19 to 22.
- 25. A ligand according to claim 23 or claim 24 which is an agonist or antagonist of GR.
- 26. A crystallized molecule or molecular complex comprising a binding pocket defined by the structure coordinates of human GR ligand binding domain amino acid residues MET560, LEU563, ASN564, LEU566, GLY567, GLY568, GLN570, TRP600, MET601, MET604, ALA605, LEU608, PHE623, MET646, LEU732, CYS736, ALA748 or a homologue of said molecule or molecular complex wherein said homologue has a root mean square deviation form the backbone atoms of said amino acids of not more than 1.5Å.
- 27. A machine-readable storage medium, comprising data storage material encoded with machine readable data, wherein the data is defined by all or a portion of the crystalized molecule or molecular complex according to claim 26.
- 28. A crystallisable composition comprising at least 150 amino acid residues of the GR ligand binding domain.
- 29. An isolated protein consisting of the amino acid sequence shown in Seq. ID1, Seq. ID2 or Seq. ID3.
- 30. An isolated protein having an amino acid sequence identical to the amino acid sequence used in a crystal according to any one of claims 1 to 6.

31. A method of obtaining structural information about a molecule or a molecular complex of unknown structure by using structure coordinates as set out for any one or more of the GR complexes shown in the Annex, comprising the steps of:

- a) generating X-ray diffraction data from said crystallised molecule or molecular complex;
- b) applying at least a portion of the structure coordinates set forth in the Annex to generate a three-dimensional electron density map of at least a portion of the molecule or molecular complex.

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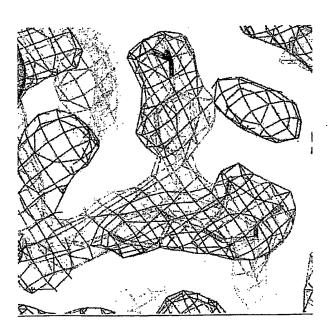
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Affinity enhancing substituents marked by "R".

$$\begin{array}{c} \text{OH} \\ \text{CH}_{3} \text{ inlR}_{17\alpha} \\ \text{R}_{10\beta} \\ \text{H} \\ \text{R}_{14\alpha} \\ \text{R}_{7\alpha} \\ \text{R}_{7\alpha} \\ \end{array}$$

Figure 1.

Figure 2



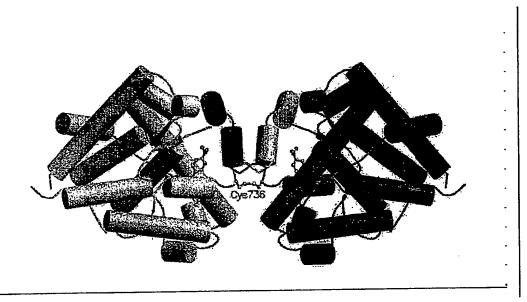


Figure 3

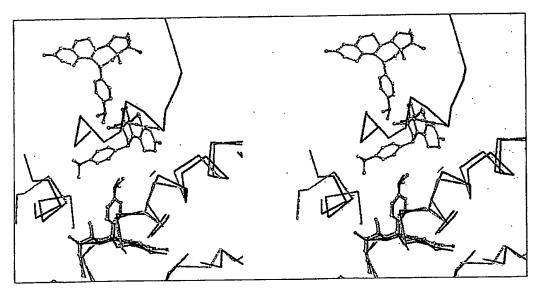


Figure 4

Figure 5

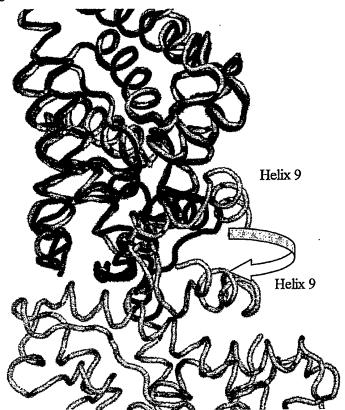
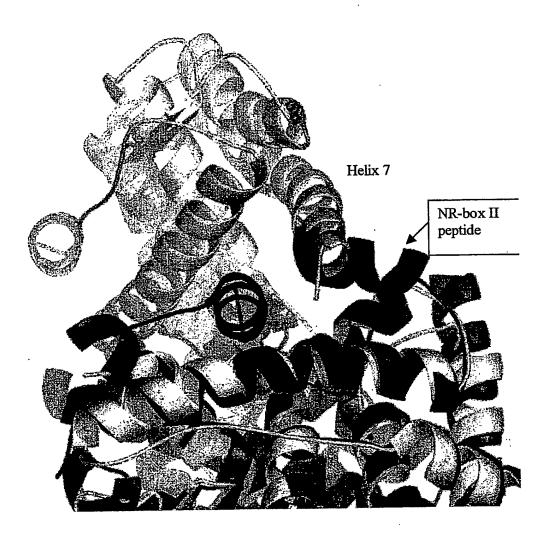


Figure 6



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MDSKESLTPGREENPSSVLAQERGDVMDFYKTLRGGATVKVSASSPSLAV	ASQSDSKQRRLLVDFPKGSVSNAQQPDLSKAVSLSMGLYMGETETKVMGN	DLGFPQQQQISLSSGETDLKLLEESIANLNRSTSVPENPKSSASTAVSAA 150	PTEKEFPKTHSDVSSEQQHLKGQTGTNGGNVKLYTTDQSTFDILQDLEFS	SGSPGKETNESPWRSDLLIDENCLLSPLAGEDDSFLLEGNSNEDCKPLIL 250
GR1 GR3 GR2 gi 121069 sp P04150 GCR_HUMAN	GR1 GR3 GR2 g1[121069 sp]P04150 GCR_HUMAN	GR1 GR3 GR2 gi 121069 sp P04150 GCR_HUMAN	GR1 GR3 GR2 gi 121069 sp P04150 GCR_HUMAN	GR1 GR3 GR2 g1 121069 sp P04150 GCR_HUMAN

GR1 GR3 GR2 gi 121069 sp P04150 GCR_HUMAN	PDIKPKIKDNGDLVLSSPSNVTLPQVKTEKEDFIELCTPGVIKQEKLGTV 300
GR1 GR3 GR2 gi 121069 sp P04150 GCR_HUMAN	YCQASFPGANIIGNKMSAISVHGVSTSGGQMYHYDMNTASLSQQQDQKPI 350
GR1 GR3 GR2 g1 121069 sp P04150 GCR_HUMAN	FNVIPPIPVGSENWNRCQGSGDDNLTSLGTLNFPGRTVFSNGYSSPSMRP 400
GR1 GR3 GR2 gi 121069 sp P04150 GCR_HUMAN	DVSSPPSSSTATTGPPPKLCLVCSDEASGCHYGVLTCGSCKVFFKRAVE 450
GR1 GR3 GR2 g1 121069 sp P04150 GCR_HUMAN	GQHNYLCAGRNDCIIDKIRRKNCPACRYRKCLQAGMNLEARKTKKKIKGI 500
GR1 GR3 GR2 g1 121069 sp P04150 GCR_HUMAN	QQATTGVSQETSENPGNKTIVPATLPQLTPTLVSLLEVIEPEVLYAGYDS 53 QQATTGVSQETSENPGDKTIVPATLPQLTPTLVSLLEVIEPEVLYAGYDS 53TIVPATLPQLTPTLVSLLEVIEPEVLYAGYDS 32 QQATTGVSQETSENPGNKTIVPATLPQLTPTLVSLLEVIEPEVLYAGYDS 550

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	103 103 82 600		153 153 132 650	203 203 182 700	253 253 225 750	
H1		H3			TMSIE	6Н 8Н
	SVPDSTWRIMTTINMLGGRQVIAAVKWAKAIPGFRNLHLDDQMTLLQYSW SVPDSTWRIMTTLNMLGGRQVIAAVKWAKAIPGFRNLHLDDQMTLLQYSW SVPDSTWRIMTTLNMLGGRQVIAAVKWAKAIPGFRNLHLDDQMTLLQYSW SVPDSTWRIMTTLNMLGGRQVIAAVKWAKAIPGFRNIHLDDQMTLLQYSW ************************************	H2	MELMAFALGWRSYRQSSANLLCFAPDLIINEQRMTLPDMYDQCKHMLYVS MSLMAFALGWRSYRQSSANLLCFAPDLIINEQRWTLPDMYDQCKHMLYVS MFLMAFALGWRSYRQSSANLLCFAPDLIINEQRWTLPDMYDQCKHMLYVS * **********************************	SELHRLQVSYEEYLCMKTLLLLSSVPKDGLKSQELFDEIRMTYIKELGKA SELHRLQVSYEEYLCMKTLLLLSSVPKDGLKSQELFDEIRMTYIKELGKA SELHRLQVSYEEYLCMKTLLLLSSVPKDGLKSQELFDEIRMTYIKELGKA ************************************	VKREGNSSONWORFYQLTKLLDSMHEVVENLLNYCFQTFLDK VKREGNSSONWORFYQLTKLLDSMHEVVENLLNYCFQTFLDK VKREGNSSONWORFYQLTKLLDSMHEVVENLLNYCFQTFLDK VKREGNSSONWORFYQLTKLLDSMHEVVENLLNYCFQTFLDK	LH7
	SVPDSTV SVPDSTV SVPDSTV SVPDSTV	!	MELMAE MSLMAE MELMAE * ***	SELHRI, SELHRI, SELHRI, SELHRI, *****	IVKREG IVKREG IVKREG IVKREG	9H
	GR1 GR3 GR2 gi 121069 sp P04150 GCR_HUMAN		GR1 GR3 GR2 gi 121069 sp P04150 GCR_HUMAN	GR1 GR3 GR2 gi 121069 sp P04150 GCR_HUMAN	GR1 GR3 GR2 gi 121069 sp P04150 GCR_HUMAN	

EMLAEIITNQIPKYSNGNIKKLLFHQ- 279 EMLAEIITNQIPKYSNGNIKKLLFHQK 280 EMLAEIITNQIPKYSNGNIKKLLFHQK 777

H9

GR1 GR3 GR2 g1|121069|sp|P04150|GCR_HUMAN

(19) World Intellectual Property Organization

International Bureau



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C07K 14/72,

(74) Agents: ELSY, David et al.; Withers & Rogers, Goldings House, 2 Hays Lane, London SE1 2HW (GB).

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(72) Inventors; and

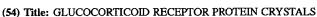
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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
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- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(57) Abstract: The present invention is in the fields of biotechnology, protein purification and crystallization, x-ray diffraction analysis, three-dimensional computer molecular modeling and rational drug design. The invention is directed to the glucocorticoid receptor and ligands for this receptor, and in particular to crystalline glucocorticoid receptor (GR) and to methods of identifying ligands utilizing GR, as well as to compounds, compositions and methods for selecting, making, and using therapeutic or diagnostic agents having GR modulating or binding activity.



International Application No

		PCT/EP 0	3/04900			
A CLASSI IPC 7	FICATION OF SUBJECT MATTER C07K14/72 G06F19/00 G01N33/4	18				
According to	International Patent Classification (IPC) or to both national classifica	tion and IPC	·			
	SEARCHED					
	ccumentation searched (classification system followed by classification CO7K GO6F GO1N	in symbols)				
Documental	ion searched other than minimum documentation to the extent that su	uch documents are included in the fields so	earched			
	ata base consulted during the International search (name of data bas , EPO-Internal, WPI Data, PAJ, MEDLI		1			
C DOCHMI	ENTS CONSIDERED TO BE RELEVANT					
Category °	Citation of document, with indication, where appropriate, of the rele	vant passages	Relevant to claim No.			
P , X	WO 03 015692 A (APOLITO CHRISTOPH ;LAMBERT MILLARD H III (US); SMIT BEEC) 27 February 2003 (2003-02-2 the whole document	1-23, 26-31				
P , X	RANDY K. BLEDSOE ET AL: "Crystal Structure of the Glucocorticoid F Ligand Binding Domain Reveals a M of Receptor Dimerization and Coac Recognition" CELL, vol. 110, 12 July 2002 (2002-07-193-105, XP002257981 the whole document	1-23, 26-31				
X Furth	ner documents are listed in the continuation of box C.	X Patent family members are listed	in annex.			
"A" docume consid "E" earlier of filing d "L" docume which citation "O" docume other r "P" docume later fr	ant defining the general state of the art which is not ered to be of particular relevance locument but published on or after the international ate not which may throw doubts on priority claim(s) or is cited to establish the publication date of another or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means or other to the international filing date but	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "8" document member of the same patent family Date of meilling of the international search report				
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Name and n	16 October 2003 0 7 NOV 2003 Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk, Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 YVONNE SIÖSTEEN /EÖ					



International Application No PCT/EP 03/04900

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No. 1-23, 26-31		
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,X	BRIAN M. NECELA ET AL: "Crystallization of the human glucocorticoid receptor ligand binding domain: a step towards selective glucocorticoids" TRENDS IN PHARMACOLOGICAL SCIENCES, vol. 24, no. 2, February 2003 (2003-02), pages 58-61, XP002257982 the whole document			
Ρ,Χ	DATABASE MEDLINE [Online] US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; 20 June 2003 (2003-06-20) KAUPPI BJÖRN ET AL: "The three-dimensional structures of antagonistic and agonistic forms of the glucocorticoid receptor ligand-binding domain: RU-486 induces a transconformation that leads to active antagonism." Database accession no. NLM12686538 XP002257983 abstract & THE JOURNAL OF BIOLOGICAL CHEMISTRY. UNITED STATES 20 JUN 2003, vol. 278, no. 25, 20 June 2003 (2003-06-20), pages 22748-22754,	1-23, 26-31		
X	DATABASE GENBANK ON NCBI [Online] Accession no. AAA16603; 10 March 1994 (1994-03-10) MUNROE, D. G. ET AL: "Alternative splicing within the DNA binding domain creates a novel isoform of the human glucocorticoid receptor" XP002257990 retrieved on 2003-10-10 abstract -& DATABASE GENBANK [Online] Accession no. AAA16603; XP002257991 Registry file RN 481222-48-4 99% identity in 276aa overlap with SEQ ID No 7, 99% identity in 224aa overlap with SEQ ID No 2, 98% identity in 275aa overlap with SEQ ID No 3 abstract	29,30		



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International Application No PCT/EP 03/04900

C.(Continue	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	<u> </u>
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE REGISTRY FILE [Online] XP002258182 RN 289516-93-4 99% identity in 276aa with SEQ ID No 1 and 99% identity in 224aa with SEQ ID No 2, RN 289516-93-4 99% identity in 248aa with SEQ ID No 3 abstract	29,30
4	-& WO 00 52050 A (GILLNER M ET AL) 8 September 2000 (2000-09-08)	1-23, 26-28,31
A	figures 2A,11, CATHERINE ROBIN-JAGERSCHMIDT ET AL: "Residues in the Ligand Binding Domain That Confer Progestin or Glucocorticoid Specificity and Modulate the Receptor Transactivation Capacity" MOLECULAR ENDOCRINOLOGY, vol. 14, no. 7, 2000, pages 1028-1037,	1-23, 26-28,31
X	XP002257984 the whole document	29,30
A	DATABASE MEDLINE [Online] US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; August 2001 (2001-08) DEY R ET AL: "Homology modelling of the ligand-binding domain of glucocorticoid receptor: binding site interactions with cortisol and corticosterone." Database accession no. NLM11579225 XP002257985 abstract & PROTEIN ENGINEERING. ENGLAND AUG 2001, vol. 14, no. 8, August 2001 (2001-08), pages 565-571, ISSN: 0269-2139	1-23, 26-31
A	WO 99 50658 A (GREENE GEOFFREY L ;AGARD DAVID A (US); ARCH DEV CORP (US); KUSHNER) 7 October 1999 (1999-10-07) the whole document	1-23, 26-31
Α	B.F. LUISI ET AL: "Crystallographic analysis of the interaction of the glucocorticoid receptor with DNA" NATURE, vol. 352, 8 August 1991 (1991-08-08), pages 497-505, XP002257986 the whole document	1-23, 26-31



International Application No PCT/EP 03/04900

10	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	the indication where appropriate, of the relevant passages	Relevant to claim No.	
A	WILLIAM BOURGUET ET AL: "Crystal structure of the ligand-binding domain of the human nuclear receptor RXR-alpha" NATURE, vol. 375, 1 June 1995 (1995-06-01), pages 377-382, XP002257987 the whole document	1-23, 26-31	
A	YIHOUNG WAN ET AL: "Separable Features of the Ligand-Binding Domain Determine the Differential Subcellular Localization and Ligand-Binding Specificity of Glucocorticoid Receptor and Progesterone	1-23, 26-31	
	Receptor" MOLECULAR ENDOCRINOLOGY, vol. 15, no. 1, 2001, pages 17-31, XP002257988 the whole document	1-23,	
A	DATABASE BIOSIS [Online] BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 23 June 2000 (2000-06-23) LIND ULRIKA ET AL: "Functional probing of the human glucocorticoid receptor steroid-interacting surface by site-directed mutagenesis: Gln-642 plays an important role in steroid recognition and binding" Database accession no. PREV200000369093 XP002257992 abstract & JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 275, no. 25, 23 June 2000 (2000-06-23), pages 19041-19049, ISSN: 0021-9258	1-23,	
A	JAN- KE GUSTAFSSON ET AL: "Structure, function and regulation of the glucocorticoid receptor" PROGRESS IN CLINICAL AND BIOLOGICAL RESEARCH, vol. 322, 1990, pages 65-80, XP002257989 the whole document	26-31	

International application No. PCT/EP 03/04900

INTERNATIONAL SEARCH REPORT

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: 24-25 because they relate to parts of the international Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically: See FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple Inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 24-25

Present claims 24-25 relate to compounds identified by the method disclosed in claims 19-22. Claims 24-25 relate to an extremely large number of possible compounds, including known compounds. Support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 is not to be found for any such compounds. In the present case, the claims so lack support and the application so lacks disclosure. These claims have not been searched.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.



Information on patent family members

International Application No PCT/EP 03/04900

	tent document in search report		Publication date		Patent family member(s)		Publication date
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